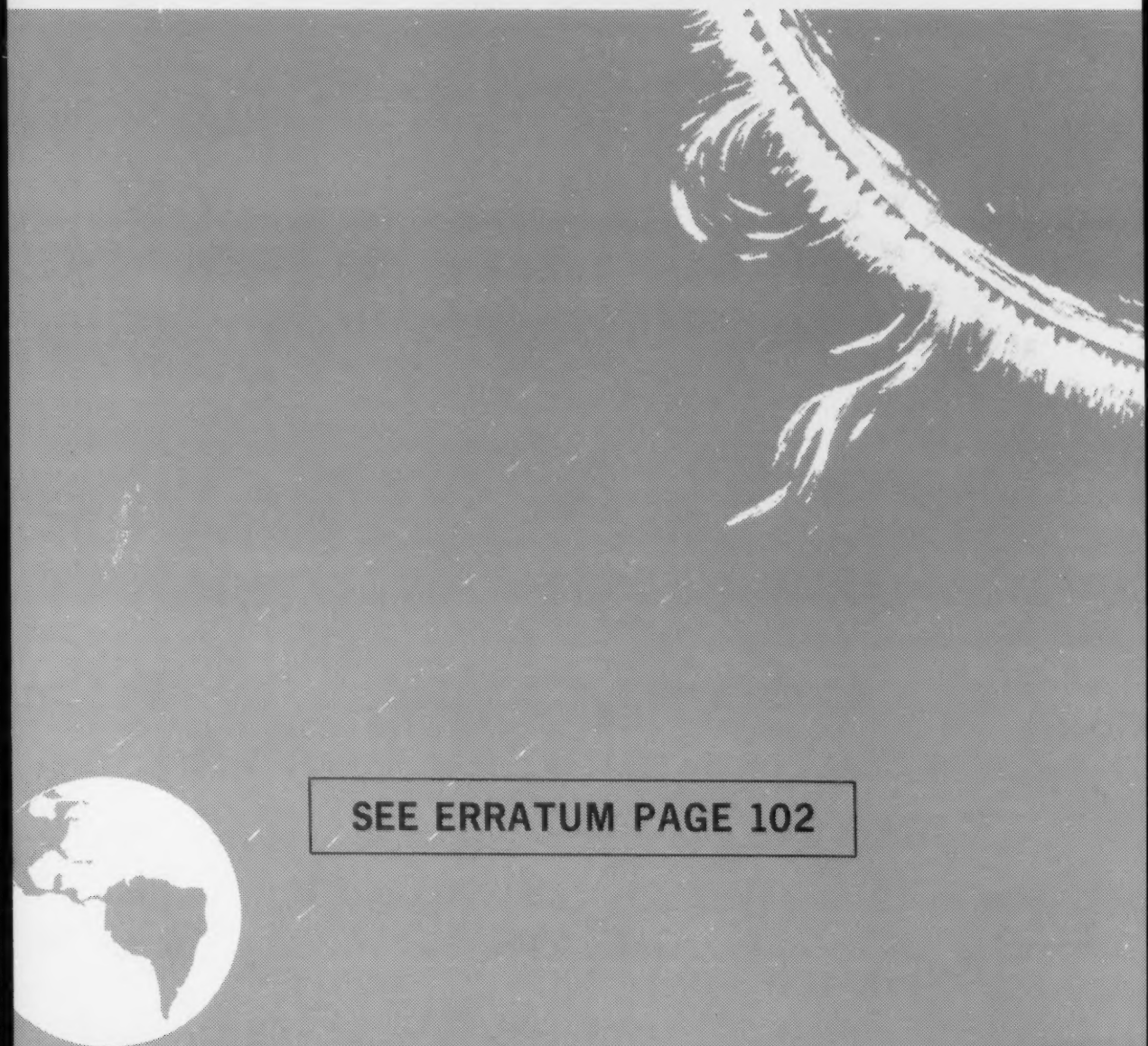
April 1975 Number 368-Part I

# Solar-Geophysical Data prompt reports

Data for March 1975–February 1975

Explanation of Data Reports Issued as Number 366 (Supplement) February 1975



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U.S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
Robert M. White, Administrator

ENVIRONMENTAL DATA SERVICE
Thomas S. Austin, Director

# Solar - Geophysical Data

NO. 368 APRIL 1975

## Part I (Prompt Reports)

DATA FOR
MARCH 1975
FEBRUARY 1975

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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To standardize referencing these reports in the open literature, the following format is recommended:

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# SOLAR - GEOPHYSICAL DATA

No. 368

Issued in two parts

Hope I. Leighton, Editor

J. Virginia Lincoln, Director
Solar - Terrestrial Data Services Division

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Note: A = Part I, B = Part II.
362A 32 listed under Aug shows that data for August 1974 were contained in *Solar-Geophysical Data* Number 362 - Part I beginning on page 32.

# MARCH 1975 DATA

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# ALERT PERIODS

## INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

### MARCH 1975

PRESTO MESSAGES (THE RAPID REPORT OF MAJOR EVENTS):

Boulder 05/1400Z Minor Magstorm begins 05/0230Z.
Boulder 10/1541Z Weak Magstorm in progress 10/1200Z.

SUMMARY OF THE GEOALERT WWA MESSAGES

| Message serial number | Date of issue | Date of observation | Wolf number | 10 cm solar flux | A index | Active Regions: Location Lat-Long | Flares: Total | Flares: M | Flares: X | Outstanding events | Forecasts: Date | Forecasts: Location Lat-Long | Forecasts: Desc* | Alert Situations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 060 | 01 | 28 | 00 | 70 | 10 | - | 0 | 0 | 0 | | 01 | SPOTNIL | | SOLQUIET MAGALERT 01/03 STRATWARM ALERT /SATURDAY/ STRATWARM EXISTS SIGNIFICANT INTENSIFICATION NOTED IN MID-STRATOSPHERE WARM AIR SYSTEM OVER NORTHEASTERN SIBERIA. |
| 061 | 02 | 01 | 12 | 72 | 15 | N11W16 | 0 | 0 | 0 | | 02 | N11W16 | Q | SOLQUIET MAGALERT MINOR 02/03 |
| 062 | 03 | 02 | 22 | 74 | 10 | N12W30 | 0 | 0 | 0 | | 03 | N12W30 | Q | SOLQUIET MAGNIL |
| 063 | 04 | 03 | 28 | 75 | 07 | N12W45 | 0 | 0 | 0 | | 04 | N12W45 | Q | SOLQUIET MAGQUIET STRATWARM ALERT /TUESDAY/ STRATWARM EXISTS NORTHERN SIBERIA MOVING POLEWARD. |
| 064 | 05 | 04 | 12 | 74 | 08 | N12W58 | 0 | 0 | 0 | | 05 | N12W58 | Q | SOLQUIET MAGQUIET STRATWARM ALERT /WEDNESDAY/ STRATWARM EXISTS NORTHERN SIBERIA. |
| 065 | 06 | 05 | 22 | 72 | 35 | N12W79<br>N07E71 | 0<br>0 | 0<br>0 | 0<br>0 | | 06 | N12W79<br>N07E71 | Q<br>Q | SOLQUIET MAGALERT 05/06 STRATWARM ALERT /THURSDAY/ STRATWARM EXISTS MID-STRATOSPHERE WARMING CONTINUES OVER NORTHERN SIBERIA. |
| 066 | 07 | 06 | 11 | 73 | 23 | N12W85<br>N07E58 | 0<br>0 | 0<br>0 | 0<br>0 | | 07 | N12W85<br>N07E58 | Q<br>Q | SOLQUIET MAGNIL STRATWARM ALERT /FRIDAY/ STRATWARM EXISTS NORTHERN SIBERIA. |
| 067 | 08 | 07 | 11 | 73 | 05 | N08W45 | 0 | 0 | 0 | | 08 | N08W45 | Q | SOLQUIET MAGALERT 09/15 STRATWARM ALERT /SATURDAY/ STRATWARM EXISTS NORTHERN SIBERIA IN MID-STRATOSPHERE SLOPING NORTHWEST TO EUROPEAN ARCTIC IN UPPER STRATOSPHERE SLOW WESTWARD SPREADING AND WEAKENING EXPECTED. |
| 068 | 09 | 08 | 28 | 74 | 01 | N06E32<br>S13E12 | 0<br>0 | 0<br>0 | 0<br>0 | | 09 | N06E32<br>S13E12 | Q<br>Q | SOLQUIET MAGALERT MINOR 09/15 |
| 069 | 10 | 09 | 32 | 75 | 05 | N07E19<br>S13W01 | 0<br>0 | 0<br>0 | 0<br>0 | | 10 | N07E19<br>S13W01 | Q<br>Q | SOLQUIET MAGALERT MINOR 10/15 |
| 070 | 11 | 10 | 17 | 74 | 35 | S13W15 | 0 | 0 | 0 | A MAGNETIC STORM STARTED GRADUALLY 09/23XX AND IS STILL IN PROGRESS | 11 | S13W13 | Q | SOLQUIET MAGALERT 11/15 |
| 071 | 12 | 11 | 30 | 78 | 46 | S13W29<br>N07W07 | 0<br>0 | 0<br>0 | 0<br>0 | MAJOR GEOMAGNETIC STORM WEAKENED TO ACTIVE CONDITIONS AFTER 1500Z | 12 | S13W29<br>N07W07 | Q<br>Q | SOLQUIET MAGALERT 12/15 |
| 072 | 13 | 12 | 15 | 75 | 52 | S13W45 | 8 | 0 | 0 | | 13 | S13W45 | E | SOLALERT 13/17 MAGALERT 13/15 |
| 073 | 14 | 13 | 23 | 77 | 19 | S14W55 | 0 | 0 | 0 | | 14 | S14W55 | E | SOLALERT 14/17 MAGALERT 14/15 |
| 074 | 15 | 14 | 29 | 76 | 18 | S13W67 | 1 | 0 | 0 | MINOR MAGNETIC STORM CONTINUES | 15 | S13W67 | E | SOLALERT 15/17 MAGALERT 15 |
| 075 | 16 | 15 | 45 | 74 | 16 | S12W85<br>S12W20<br>S09W55 | 0<br>0<br>0 | 0<br>0<br>0 | 0<br>0<br>0 | NEUTRON GLE 8.2% ABOVE BACKGROUND AT 2230Z | 16 | S12W85<br>S12W20<br>S09W55 | Q<br>Q<br>Q | SOLNIL MAGNIL |
| 076 | 17 | 16 | 48 | 77 | 20 | S14W34<br>S11W70 | 1<br>2 | 0<br>0 | 0<br>0 | | 17 | S14W34<br>S11W70 | Q<br>Q | SOLQUIET MAGQUIET |
| 077 | 18 | 17 | 33 | 76 | 12 | S14W40<br>S11W82 | 0<br>0 | 0<br>0 | 0<br>0 | | 18 | S14W40<br>S11W82 | Q<br>Q | SOLQUIET MAGQUIET |
| 078 | 19 | 18 | 34 | 75 | 15 | S13W62<br>S07W37 | 0<br>0 | 0<br>0 | 0<br>0 | | 19 | S13W62<br>S07W37 | Q<br>Q | SOLQUIET MAGQUIET |
| 079 | 20 | 19 | 27 | 74 | 10 | S12W81<br>N06W58 | 0<br>0 | 0<br>0 | 0<br>0 | | 20 | S12W81<br>N06W58 | Q<br>Q | SOLQUIET MAGQUIET |
| 080 | 21 | 20 | 12 | 73 | 10 | S14W90 | 0 | 0 | 0 | | 21 | S14W90 | Q | SOLQUIET MAGQUIET STRATWARM ALERT /FRIDAY/ WARM AIR ESTABLISHED IN STRATOSPHERE OVER ARCTIC REGION. SPRINGTIME CIRCULATION REVERSAL PROGRESSING. STRATWARM ENDS. |

* Q=Quiet E=Eruptive A=Active P=Proton C=Caution D=Doubtful O.G.=Other Groups

# ALERT PERIODS

## INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

### MARCH 1975

SUMMARY OF THE GEOALERT WWA MESSAGES

| Message serial number | Date of issue | Date of observation | Wolf number | 10 cm solar flux | A index | Active Regions | | | | Outstanding events | Forecasts | | | Alert Situations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Location | No. of Flares | | | | Date | Location | Desc* | |
| | | | | | | Lat-Long | Total | M | X | | | Lat-Long | | |
| 081 | 22 | 21 | 00 | 72 | 04 | - | - | - | - | | 22 | SPOTNIL | | SOLQUIET MAGALERT 22/24 |
| 082 | 23 | 22 | 00 | 70 | 05 | - | - | - | - | | 23 | SPOTNIL | | SOLQUIET MAGALERT MINOR 23/24 |
| 083 | 24 | 23 | 00 | 68 | 14 | - | - | - | - | | 24 | SPOTNIL | | SOLQUIET MAGALERT MINOR 24 |
| 084 | 25 | 24 | 00 | 68 | 11 | - | - | - | - | | 25 | SPOTNIL | | SOLQUIET MAGNIL |
| 085 | 26 | 25 | 00 | 68 | 08 | - | - | - | - | | 26 | SPOTNIL | | SOLQUIET MAGQUIET |
| 086 | 27 | 26 | 11 | 69 | 12 | N09E00 | 0 | 0 | 0 | | 27 | N09E00 | Q | SOLQUIET MAGQUIET |
| 087 | 28 | 27 | 00 | 68 | 25 | - | - | - | - | | 28 | SPOTNIL | | SOLQUIET MAGALERT MINOR 28/29 |
| 088 | 29 | 28 | 00 | 68 | 23 | - | - | - | - | A MINOR GEOMAGNETIC DISTURBANCE IS IN PROGRESS | 29 | SPOTNIL | | SOLQUIET MAGALERT MINOR 29/01 |
| 089 | 30 | 29 | 00 | 69 | 23 | - | - | - | - | MINOR GEOMAGNETIC DISTURBANCE CONTINUES | 30 | SPOTNIL | | SOLQUIET MAGALERT MINOR 30/1 |
| 090 | 31 | 30 | 15 | 69 | 08 | S01E27 | 0 | 0 | 0 | | 31 | S01E27 | Q | SOLQUIET MAGNIL |
| 091 | 01 | 31 | 13 | 71 | 10 | S02E14 | 0 | 0 | 0 | | 01 | S02E14 | Q | SOLQUIET MAGQUIET |

# RELATIVE SUNSPOT NUMBERS

## ZURICH, $R_Z$

| | 1974 FINAL | | | | | | | | | 1975 PROVISIONAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| 1 | 22 | 47 | 33 | 79 | 37 | 8 | 61 | 18 | 8 | 30 | 0 | 0 |
| 2 | 24 | 70 | 41 | 87 | 23 | 8 | 53 | 27 | 0 | 30 | 22 | 7 |
| 3 | 19 | 85 | 52 | 90 | 12 | 16 | 46 | 39 | 9 | 28 | 28 | 14 |
| 4 | 22 | 98 | 67 | 93 | 17 | 37 | 60 | 45 | 16 | 19 | 27 | 11 |
| 5 | 21 | 100 | 62 | 95 | 18 | 40 | 85 | 36 | 17 | 18 | 20 | 14 |
| 6 | 23 | 102 | 72 | 93 | 26 | 44 | 83 | 25 | 8 | 23 | 26 | 14 |
| 7 | 28 | 98 | 65 | 78 | 32 | 38 | 84 | 22 | 7 | 32 | 34 | 7 |
| 8 | 38 | 96 | 59 | 59 | 34 | 32 | 97 | 14 | 0 | 29 | 29 | 18 |
| 9 | 56 | 88 | 64 | 40 | 43 | 63 | 107 | 7 | 0 | 37 | 22 | 19 |
| 10 | 66 | 69 | 59 | 26 | 48 | 74 | 114 | 24 | 9 | 31 | 18 | 20 |
| 11 | 71 | 62 | 48 | 22 | 54 | 88 | 110 | 27 | 21 | 30 | 13 | 20 |
| 12 | 74 | 49 | 38 | 22 | 67 | 80 | 92 | 24 | 31 | 31 | 18 | 15 |
| 13 | 77 | 38 | 44 | 28 | 69 | 74 | 76 | 16 | 34 | 32 | 9 | 15 |
| 14 | 83 | 32 | 41 | 38 | 66 | 67 | 63 | 8 | 33 | 11 | 8 | 17 |
| 15 | 87 | 23 | 32 | 49 | 59 | 64 | 48 | 16 | 35 | 20 | 8 | 18 |
| 16 | 77 | 16 | 25 | 54 | 57 | 68 | 41 | 23 | 40 | 17 | 8 | 30 |
| 17 | 67 | 8 | 25 | 52 | 52 | 71 | 28 | 20 | 36 | 16 | 0 | 30 |
| 18 | 55 | 0 | 27 | 53 | 44 | 66 | 16 | 18 | 34 | 20 | 0 | 24 |
| 19 | 45 | 0 | 28 | 47 | 43 | 51 | 9 | 34 | 43 | 20 | 3 | 20 |
| 20 | 42 | 0 | 20 | 50 | 32 | 31 | 11 | 40 | 48 | 18 | 7 | 16 |
| 21 | 35 | 0 | 16 | 55 | 28 | 13 | 12 | 40 | 40 | 16 | 8 | 9 |
| 22 | 25 | 7 | 11 | 58 | 34 | 8 | 9 | 44 | 37 | 16 | 0 | 3 |
| 23 | 17 | 9 | 11 | 60 | 34 | 7 | 7 | 44 | 28 | 15 | 0 | 0 |
| 24 | 18 | 7 | 15 | 57 | 28 | 11 | 7 | 37 | 26 | 7 | 12 | 0 |
| 25 | 19 | 0 | 15 | 59 | 25 | 11 | 8 | 29 | 9 | 7 | 9 | 0 |
| 26 | 20 | 20 | 8 | 60 | 8 | 13 | 16 | 25 | 8 | 7 | 0 | 13 |
| 27 | 26 | 18 | 8 | 54 | 8 | 19 | 30 | 23 | 8 | 0 | 0 | 7 |
| 28 | 15 | 20 | 18 | 51 | 8 | 23 | 27 | 13 | 20 | 7 | 0 | 3 |
| 29 | 22 | 18 | 30 | 42 | 14 | 38 | 22 | 7 | 16 | 7 | | 0 |
| 30 | 16 | 7 | 47 | 41 | 8 | 58 | 22 | 7 | 19 | 7 | | 7 |
| 31 | | 30 | | 38 | 15 | | 16 | | 13 | 0 | | 8 |
| MEAN | 40.3 | 39.5 | 36.0 | 55.8 | 33.6 | 40.2 | 47.1 | 25.0 | 20.5 | 18.7 | 11.6 | 12.0 |

1974 yearly mean = 34.5

# DAILY SOLAR FLUX AT 2800 MHz
# OTTAWA ARO

## FLUX ADJUSTED TO 1 A.U., $S_a$

| | 1974 | | | | | | | | | 1975 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| 1 | 72.1 | 98.5 | 97.9 | 105.4* | 85.1 | 77.8 | 93.1 | 90.2 | 79.7 | 78.1 | 70.8 | 70.7 |
| 2 | 71.3 | 113.1* | 100.1 | 112.7* | 85.2 | 79.4 | 94.6 | 92.0 | 78.7 | 75.8 | 72.3 | 72.4 |
| 3 | 71.6 | 115.5 | 98.9 | 116.5* | 83.0 | 79.2 | 93.4 | 96.2 | 76.7 | 77.1 | 74.3 | 73.4 |
| 4 | 73.3 | 118.0 | 98.2 | 127.8* | 85.8 | 81.0 | 100.5 | 99.5 | 74.7 | 74.4 | 75.4 | 72.8 |
| 5 | 76.3 | 119.7 | 96.5 | 125.6* | 86.5 | 81.5 | 113.3* | 97.6* | 73.2 | 73.7 | 76.5 | 71.3 |
| 6 | 80.0 | 123.0 | 95.0* | 121.5 | 88.0 | 82.2 | 115.0 | 92.3 | 71.9 | 73.8 | 81.1 | 72.4 |
| 7 | 80.2 | 119.3 | 92.8 | 110.9* | 85.8 | 85.4 | 114.5* | 85.6 | 71.1 | 75.7 | 79.4 | 71.9 |
| 8 | 81.1 | 115.8 | 95.0* | 104.7* | 89.4 | 93.4 | 125.2 | 82.0 | 69.6 | 77.7 | 78.8 | 72.5 |
| 9 | 87.8 | 110.0 | 95.1 | 95.5 | 87.5 | 96.0 | 128.9 | 78.9 | 69.6 | 79.9 | 77.1 | 73.8 |
| 10 | 93.5* | 105.1 | 97.0 | 88.2 | 88.3 | 102.8 | 129.3* | 78.4 | 70.4 | 80.5 | 76.7 | 73.3 |
| 11 | 99.8 | 104.3 | 95.3* | 83.1 | 94.4 | 104.6 | 137.5* | 77.3 | 76.2 | 81.2 | 74.8 | 73.8 |
| 12 | 105.6* | 97.1 | 91.7 | 83.3 | 99.4 | 105.6 | 144.1 | 79.1 | 77.9 | 82.4 | 74.9 | 74.2 |
| 13 | 102.8 | 93.5 | 89.8 | 83.3 | 95.2 | 106.8* | 126.6 | 76.1 | 78.8 | 80.4 | 73.7 | 75.6* |
| 14 | 116.3 | 88.2 | 88.1 | 83.3 | 93.2 | 104.1 | 113.2* | 77.7 | 78.2 | 77.7 | 72.0 | 75.0 |
| 15 | 122.9* | 84.9 | 84.7 | 85.5 | 92.1 | 103.6 | 103.7* | 80.0 | 83.2 | 77.4 | 69.7 | 73.4 |
| 16 | 115.0* | 80.3 | 86.2 | 91.3 | 96.6 | 102.0* | 94.9 | 82.5 | 88.3 | 76.5 | 71.4 | 76.0 |
| 17 | 101.8 | 75.8 | 87.2 | 91.0 | 98.8 | 100.3 | 83.8 | 84.6 | 88.3 | 74.7 | 69.3 | 75.3 |
| 18 | 98.0 | 75.2 | 84.4 | 86.5 | 95.1* | 100.8 | 81.0 | 88.5 | 90.3 | 75.8 | 68.3 | 74.2 |
| 19 | 97.5* | 73.0 | 82.8 | 87.1 | 88.8 | 91.7 | 75.2 | 96.0 | 91.9 | 74.1 | 70.0 | 72.9 |
| 20 | 82.3 | 72.5 | 83.8 | 86.7 | 82.6 | 85.9* | 75.5 | 95.6 | 87.3 | 73.8 | 69.5 | 71.9 |
| 21 | 79.5 | 71.9 | 81.4 | 90.1 | 81.2* | 82.7 | 73.9 | 96.2 | 86.0 | 74.5 | 68.9 | 71.2 |
| 22 | 75.3 | 72.2 | 82.3 | 95.3* | 80.6 | 81.8 | 72.6 | 98.7 | 84.4* | 73.6 | 68.3 | 69.3 |
| 23 | 73.9 | 71.5 | 80.2 | 98.5 | 81.8 | 74.6 | 74.0 | 98.1 | 83.0 | 72.7 | 68.3 | 67.6 |
| 24 | 75.8 | 71.6 | 79.1 | 92.1* | 77.4 | 72.8 | 74.7 | 95.9 | 80.1 | 71.8 | 68.6 | 67.4 |
| 25 | 76.5 | 72.4 | 78.8 | 89.5 | 75.7 | 72.8 | 76.9 | 94.5 | 78.9 | 70.3 | 69.4 | 67.5 |
| 26 | 74.9 | 79.6 | 79.6 | 93.1 | 73.8 | 75.4 | 80.7 | 92.2 | 75.8 | 70.5 | 68.8 | 68.6 |
| 27 | 75.3 | 85.1 | 82.4 | 97.9 | 72.7 | 77.8 | 80.0 | 90.8 | 74.3 | 70.1 | 69.4 | 67.3 |
| 28 | 77.9 | 87.4 | 83.6 | 84.5 | 71.8 | 80.7 | 81.6 | 86.6 | 73.7 | 70.7 | 68.6 | 67.8 |
| 29 | 81.6 | 89.4 | 89.4* | 85.2 | 72.4 | 90.7 | 81.6 | 83.8 | 74.1 | 70.4 | | 69.0 |
| 30 | 91.7 | 91.3 | 93.1* | 85.9 | 74.2 | 91.5 | 82.7 | 82.8 | 74.5 | 70.5 | | 69.0 |
| 31 | | 95.1 | | 87.4 | 75.6 | | 86.7* | | 76.1 | 70.1 | | 70.5 |
| MEAN | 86.7 | 92.6 | 89.0 | 95.5 | 85.1 | 88.7 | 97.1 | 88.3 | 78.6 | 75.0 | 72.4 | 71.7 |

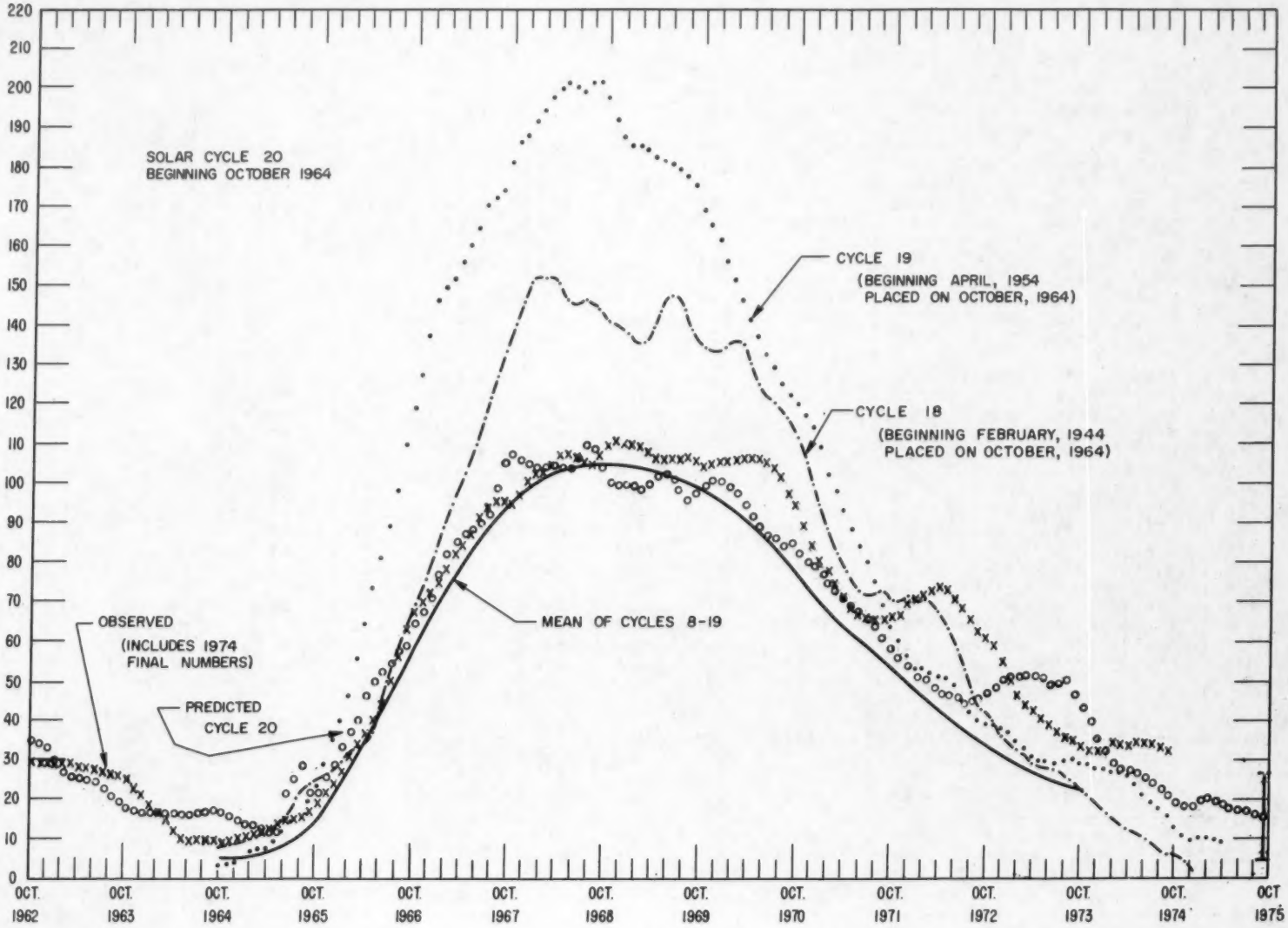
* adjusted for burst

# DAILY SOLAR INDICES

## MARCH 1975

| MAR 1975 | YEAR DAY | BARTELS 27-DAY CYCLE NUMBER | SUNSPOT NUMBERS | | OBSERVED FLUX | SOLAR FLUX ADJUSTED TO 1 A.U. | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $R_Z$ | $R_{A'}$ | OTTAWA 2800 | AFCRL 15400 | AFCRL 8800 | AFCRL 4995 | OTTAWA 2800 | AFCRL 2695 | AFCRL 1415 | AFCRL 606 | AFCRL 410 | AFCRL 245 |
| 1 | 60 | 7 | 0 | 5 | 72.0 | 525 | 272 | 118 | 70.7 | 69.5 | 46.8 | 32.5 | 21.1 | 8.0 |
| 2 | 61 | 8 | 7 | 13 | 73.7 | 519 | 270 | 120 | 72.4 | 72.6 | 48.2 | 34.4 | 23.5 | 12.9 |
| 3 | 62 | 9 | 14 | 13 | 74.7 | 517 | 269 | 117 | 73.4 | 73.3 | 47.8 | 31.4 | 21.2 | 8.0 |
| 4 | 63 | 10 | 11 | 11 | 74.0 | 529 | 279 | 120 | 72.8 | 73.9 | 48.5 | 35.5 | 21.8 | 8.3 |
| 5 | 64 | 11 | 14 | 21 | 72.5 | 525 | 279 | 118 | 71.3 | 69.9 | 46.6 | 32.1 | 22.5 | 8.4 |
| 6 | 65 | 12 | 14 | 9 | 73.5 | 519 | 278 | 119 | 72.4 | 71.6 | 48.9 | 35.1 | 18.8 | 8.1 |
| 7 | 66 | 13 | 7 | 8 | 73.0 | 516 | 275 | 118 | 71.9 | 71.2 | 47.2 | 34.3 | 18.8 | 8.0 |
| 8 | 67 | 14 | 18 | 16 | 73.5 | 520 | 276 | 118 | 72.5 | 72.2 | 49.6 | 34.8 | 19.2 | 7.6 |
| 9 | 68 | 15 | 19 | 20 | 74.8 | 524 | 277 | 118 | 73.8 | 72.9 | 48.9 | 35.7 | 19.4 | 8.5 |
| 10 | 69 | 16 | 20 | 16 | 74.3 | 513 | 276 | 119 | 73.3 | 73.4 | 50.0 | 36.4 | 19.4 | 8.3 |
| 11 | 70 | 17 | 20 | 15 | 74.0 | 507 | 274 | 119 | 73.0 | 72.5 | 48.8 | 34.1 | 19.0 | 8.6 |
| 12 | 71 | 18 | 15 | 14 | 75.1 | 515 | 277 | 122 | 74.2 | 74.2 | 50.0 | 35.3 | 19.9 | 8.5 |
| 13 | 72 | 19 | 15 | 16 | 76.5* | 518 | 274 | 123 | 75.6* | 75.9 | 50.1 | 34.1 | 18.2 | 7.4 |
| 14 | 73 | 20 | 17 | 15 | 75.8 | 517 | 277 | 123 | 75.0 | 72.3 | 49.4 | 35.1 | 20.8 | 7.8 |
| 15 | 74 | 21 | 18 | 20 | 74.2 | 513 | 272 | 119 | 73.4 | 72.0 | 48.1 | 33.7 | 19.8 | 8.0 |
| 16 | 75 | 22 | 30 | 29 | 76.8 | 515 | 278 | 122 | 76.0 | 73.9 | 49.0 | 34.1 | 21.8 | 10.5 |
| 17 | 76 | 23 | 30 | 27 | 76.1 | 515 | 275 | 121 | 75.3 | 73.6 | 49.6 | 34.7 | 23.4 | 12.4 |
| 18 | 77 | 24 | 24 | 20 | 74.9 | 515 | 274 | 122 | 74.2 | 72.5 | 47.8 | 33.9 | 22.0 | 14.5 |
| 19 | 78 | 25 | 20 | 15 | 73.5 | 516 | 274 | 121 | 72.9 | 71.3 | 49.2 | 33.6 | 21.7 | 8.0 |
| 20 | 79 | 26 | 16 | 8 | 72.5 | 520 | 272 | 119 | 71.9 | 73.0 | 48.9 | 32.8 | 19.5 | 8.0 |
| 21 | 80 | 27 | 9 | 1 | 71.7 | 518 | 276 | 117 | 71.2 | 71.1 | 47.5 | 32.9 | 20.2 | 7.4 |
| 22 | 81 | 1 | 0 | 0 | 69.8 | 522 | 274 | 115 | 69.3 | 69.6 | 45.4 | 30.5 | 20.9 | 7.5 |
| 23 | 82 | 2 | 0 | 0 | 68.0 | 513 | 274 | 115 | 67.6 | 66.5 | 44.4 | 30.8 | 19.9 | 7.6 |
| 24 | 83 | 3 | 0 | 0 | 67.8 | 511 | 274 | 116 | 67.4 | 66.1 | 45.2 | 31.2 | 20.0 | 7.2 |
| 25 | 84 | 4 | 0 | 0 | 67.8 | 514 | 275 | 116 | 67.5 | 66.1 | 42.5 | 30.9 | 19.3 | 7.3 |
| 26 | 85 | 5 | 13 | 2 | 68.9 | 514 | 277 | 115 | 68.6 | 69.4 | 45.0 | 31.3 | 20.4 | 7.2 |
| 27 | 86 | 6 | 7 | 1 | 67.6 | 510 | 279 | 114 | 67.3 | 68.6 | 45.3 | 32.0 | 21.1 | 7.6 |
| 28 | 87 | 7 | 0 | 0 | 68.0 | 511 | 278 | 116 | 67.8 | 68.8 | 43.7 | 33.5 | 21.5 | 7.6 |
| 29 | 88 | 8 | 0 | 0 | 69.2 | 513 | 277 | 115 | 69.0 | 68.8 | 45.2 | 32.6 | 19.9 | 7.4 |
| 30 | 89 | 9 | 7 | 3 | 69.1 | 516 | 276 | 116 | 69.0 | 66.8 | 45.9 | 33.5 | 21.1 | 7.8 |
| 31 | 90 | 10 | 8 | 2 | 70.6 | 515 | 276 | 117 | 70.5 | 68.7 | 47.2 | 35.4 | 22.5 | 7.6 |
| MEAN | | | 12.0 | 10.3 | 72.4 | 517 | 275 | 118 | 71.7 | 71.0 | 47.4 | 33.5 | 20.6 | 8.5 |

* Corrected for burst.




PREDICTED AND OBSERVED SUNSPOT NUMBERS

# SMOOTHED OBSERVED AND PREDICTED SUNSPOT NUMBERS
## CYCLE 20

| MONTH | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1964 | | | | | | | | | | 9.6 | 10.2 | 11.0 |
| 1965 | 11.7 | 12.0 | 12.5 | 13.6 | 14.6 | 15.0 | 15.5 | 16.4 | 17.4 | 19.7 | 22.3 | 24.5 |
| 1966 | 27.7 | 31.3 | 34.5 | 37.4 | 40.7 | 44.6 | 50.3 | 56.6 | 63.1 | 67.6 | 70.2 | 72.7 |
| 1967 | 75.0 | 78.8 | 82.2 | 84.6 | 87.4 | 91.3 | 94.1 | 95.3 | 95.3 | 95.0 | 97.1 | 100.6 |
| 1968 | 102.6 | 102.9 | 104.7 | 107.2 | 107.6 | 106.6 | 105.2 | 104.8 | 107.0 | 109.9 | 110.6 | 110.1 |
| 1969 | 110.0 | 109.6 | 108.0 | 106.4 | 106.2 | 106.1 | 105.8 | 106.4 | 105.4 | 104.1 | 104.6 | 104.9 |
| 1970 | 105.6 | 106.0 | 106.2 | 106.1 | 105.8 | 105.3 | 103.8 | 101.0 | 97.2 | 93.9 | 89.4 | 84.1 |
| 1971 | 80.4 | 77.8 | 74.4 | 70.9 | 68.1 | 66.7 | 65.4 | 64.6 | 65.8 | 66.2 | 66.8 | 69.4 |
| 1972 | 70.8 | 71.2 | 72.4 | 73.4 | 72.9 | 70.5 | 68.2 | 65.5 | 62.2 | 60.6 | 58.7 | 55.1 |
| 1973 | 50.9 | 46.5 | 44.2 | 42.7 | 40.7 | 39.1 | 37.5 | 36.1 | 34.4 | 32.6 | 31.8 | 31.5 |
| 1974 | 32.7 | 34.4 | 34.8 | 33.9 | 34.6 | 34.5 | 34.8 | 33.1 | 32.1 | 30.3 (2) | 28.7 (3) | 27.4 (4) |
| 1975 | 26.0 (5) | 24.3 (5) | 23.0 (6) | 21.5 (7) | 19.8 (8) | 18.6 (9) | 17.6 (11) | 16.5 (-) | 15.3 (-) | 14.4 (-) | 13.5 (-) | 12.5 (-) |

For each month, the upper figure is the observed or predicted Zürich smoothed sunspot number. The lower figure in parenthesis is the corresponding absolute value of the 90% prediction interval, an indication of the uncertainty above and below the predicted number. Observed numbers are those with no prediction intervals. The observed smoothed sunspot numbers are based on final Zürich numbers through 1974.

The predicted sunspot numbers are derived from a regression analysis based on cycles 8 through 19. Tests indicate that earlier cycles are from a different statistical population. From July 1968 - February 1970 a regression analysis based on cycles 1 through 19 was used because it had not then been proven that two populations exist.

# SOLAR FLARES

## PARTIAL LISTING

**Solar Flares for which at least one observatory has assigned a numerical importance of "1" or greater.**

### MARCH 1975

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE MAR | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | NOAA PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| ATHN | 12 | 1343 | 1414 | 1347 | S13 | W39 | .636 | | 9.6 | 31 | SN | 2 | C | | 1.98 | | | | U F |
| ATHN | 12 | 1343 | 1414 | 1347 | S13 | W39 | .636 | | 9.6 | 31 | SN | 2 | V | | 1.98 | | | | U F |
| RAMY | 12 | 1343 | 1425 | 1346 | S15 | W37 | .615 | | 9.8 | 42 | SN | 4 | C | | 1.11 | | | | F |
| RAMY | 12 | 1350E | 1413 | 1355 | S13 | W37 | .610 | 13532 | 9.8 | 290 | 1F | 4 | C | | 2.17 | | | | DE |
| RAMY | 12 | 1350E | 13550 | 13550 | S13 | W37 | .610 | 13532 | 9.8 | 50 | 1F | 4 | V | | 2.17 | | | | DE |

Note: Catania and Capri-S express Maximum Intensities in percent of the local undisturbed chromosphere instead of percent of the local continuum. Parentheses are used to indicate this difference.

"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by a high speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the calcium II lines H and K.
P = Flare shows helium $D_3$ in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked asymmetry in Hα line suggests ejection of high velocity material.
S = Brightness follows disappearance of filament (same position).
T = Region active all day.
U = Two bright branches, parallel (||) or converging (Y).
V = Occurrence of an explosive phase: important and abrupt expansion in about a minute with or without important intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide Hα line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

# SOLAR FLARES

**Date, time (UT) and coordinates of Subflares not included in preceding table.**

### MARCH 1975

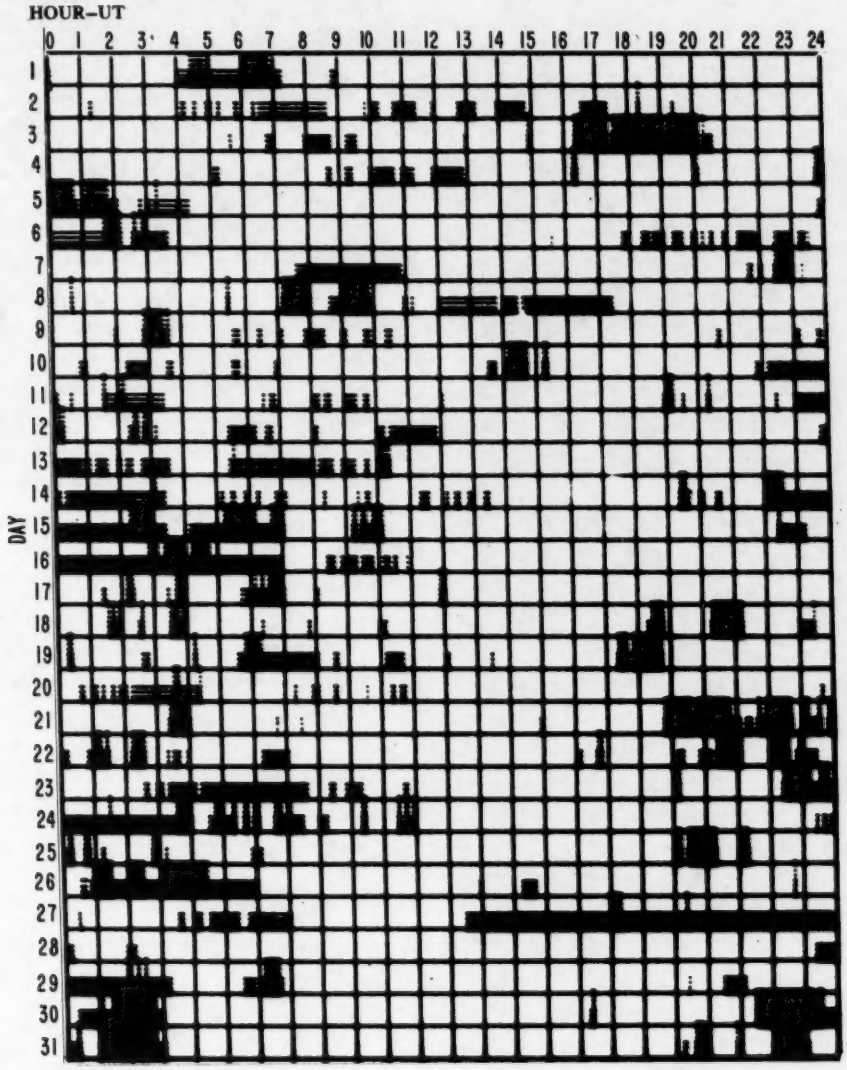
05 1918 N12 W73 11 0039 S13 W30 12 0039E S14 W31 12 0040E S13 W32 12 0040 S13 W30 12 0310 S14 W32
12 0312E S13 W32 12 0847 S14 W37 12 0917 S14 W37 12 0919 S13 W34 12 1648 S15 W39 12 1833E S13 W41
12 1834E S13 W41 12 1913 S15 W38 12 1917 S15 W41 12 2237 S15 W42 12 2238 S13 W44 13 0027 S13 W43
13 0629 S13 W49 13 1207 S15 W48 13 1919 S15 W53 13 2041 S14 W57 14 0059 S13 W57 14 2351E S12 W70
15 1831 S13 W82 15 2339 S13 W90 16 0915 S11 W61 16 0915 S11 W61 16 1216 S10 W62 16 1314 S11 W63

16 1314 S11 W63 16 1411 S12 W63 16 1918 S16 W31 17 1754E S17 W90 21 2244E N 7 W85 21 2244E N 8 W81
22 0126E N 8 W87 22 0129E N 8 W84 23 2013 N16 E47

# INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

## MARCH 1975




Observatories included in total patrol:

| | | | | |
|---|---|---|---|---|
| Athenes | Catania | Manila | Palehua | Upice |
| Boulder | Herstmonceux | McMath-Hulbert | Ramey | Wendelstein |
| Bucharest | Hurbanovo | Mitaka | Tehran | |

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

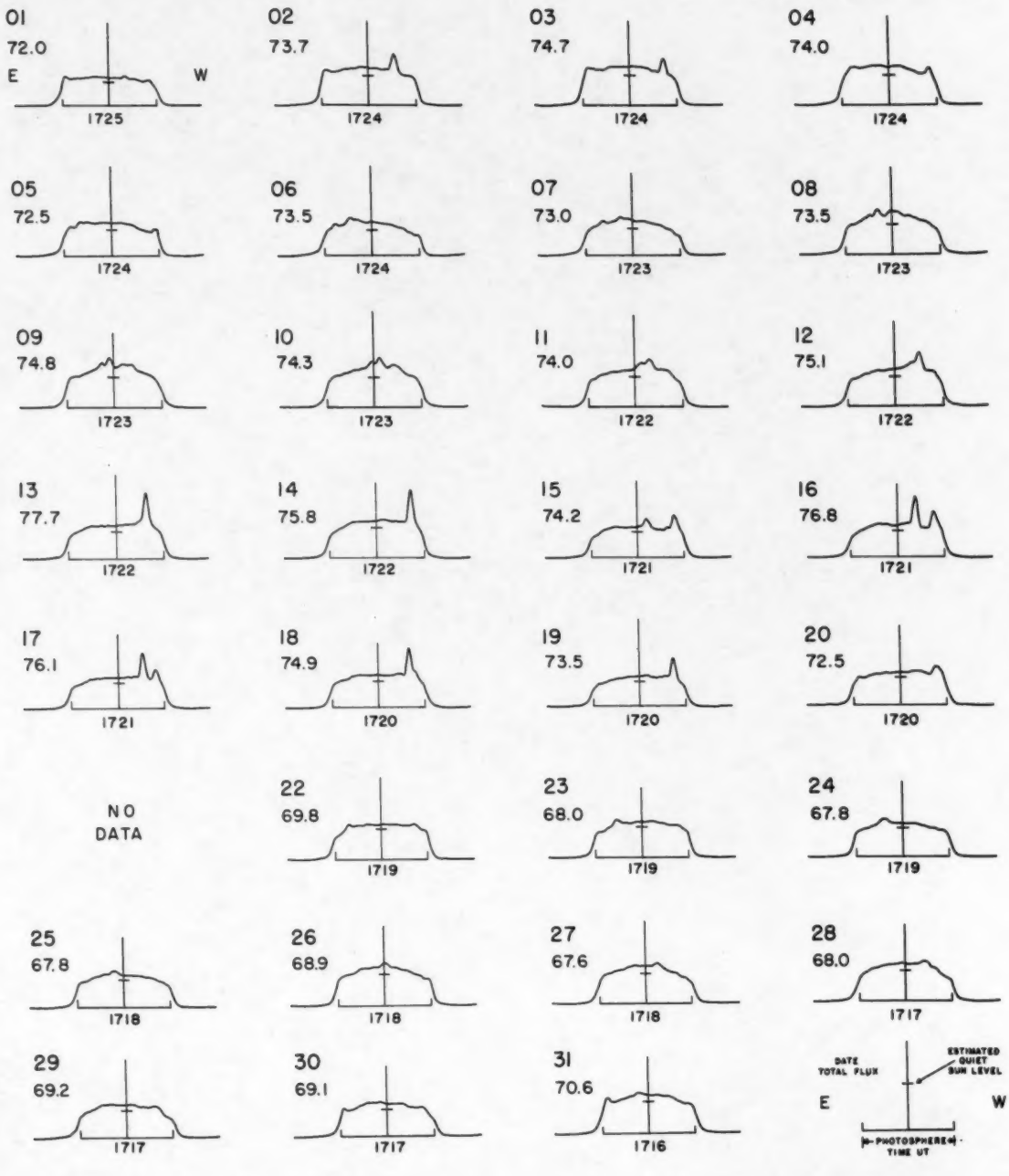
DATA NOT AVAILABLE AT TIME OF PUBLICATION

# EAST - WEST SOLAR SCANS

March 1975

ALGONQUIN RADIO OBSERVATORY
CANADA

10.7cm
Fan Beam with 1.5 minutes of arc
E - W Resolution



14
Mar 75

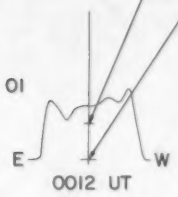
# EAST-WEST SOLAR SCANS

MARCH 1975

Fleurs, Australia

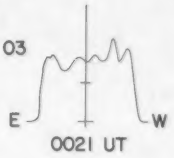
ESTIMATED QUIET SUN LEVEL
COLD SKY LEVEL

21 cm
Fan-Beam with 2 minutes of arc
E-W Resolution

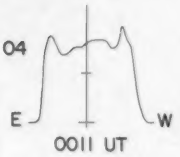
01


0012 UT

02
NO DATA

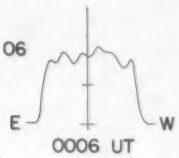
03


0021 UT

04


0011 UT

05
NO DATA

06


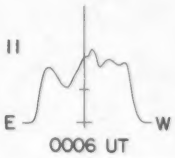
0006 UT

07
NO DATA

08
NO DATA

09
NO DATA

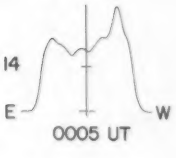
10
NO DATA

11


0006 UT

12
NO DATA

13
NO DATA

14


0005 UT

15
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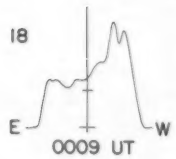
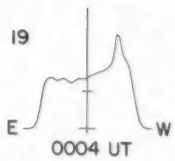
16
NO DATA

17
NO DATA

18


0009 UT

19


0004 UT

20
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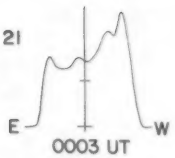
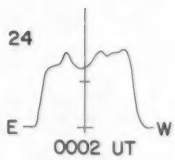
21


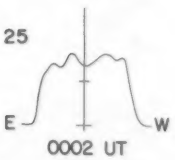
0003 UT

22
NO DATA

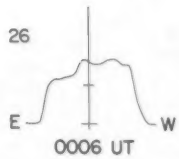
23
NO DATA

24


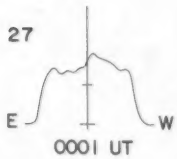
0002 UT

25


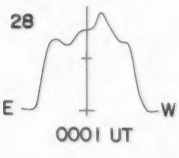
0002 UT

26


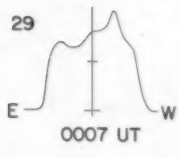
0006 UT

27


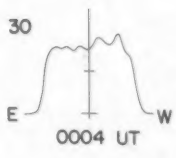
0001 UT

28


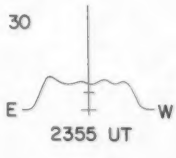
0001 UT

29


0007 UT

30


0004 UT

30


2355 UT

# EAST-WEST SOLAR SCANS

**MARCH 1975**

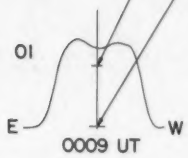
Fleurs, Australia

ESTIMATED QUIET SUN LEVEL

COLD SKY LEVEL

43 cm
Fan-Beam with 4 minutes of arc
E-W Resolution

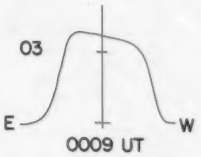
01



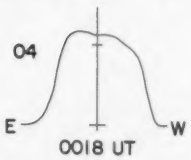

02

NO DATA

03




04




05

NO DATA

06

07

NO DATA

08

NO DATA

09

NO DATA

10

NO DATA

11

NO DATA

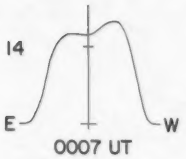
12

NO DATA

13

NO DATA

14




15

NO DATA

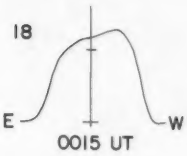
16

NO DATA

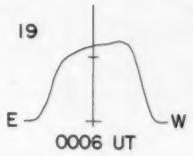
17

NO DATA

18



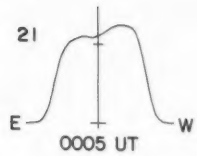

19




20

NO DATA

21



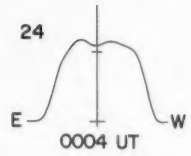

22

NO DATA

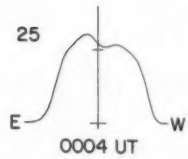
23

NO DATA

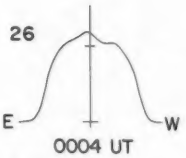
24



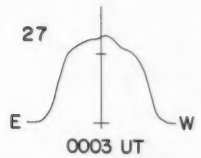

25



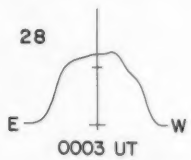

26



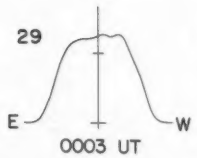

27



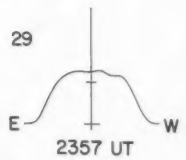

28




29




29




31

NO DATA

# SOLAR RADIO EMISSION
## SELECTED FIXED FREQUENCY EVENTS

**MARCH 1975**

| | FREQUENCY | STATION | TYPE | STARTING TIME | TIME OF MAXIMUM | DURATION | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ | | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | UT | UT | MINUTES | PEAK | MEAN | | |
| 6 | 2695 | BOUL | 8 S | 2059.5 | 2100.5 | 2 | 9 | 4 | | |
| | 2695 | BOUL | 3 S | 2105.5 | 2106 | 1.5 | 5 | 2 | | |
| 7 | 2695 | BOUL | 45 C | 2329.5 | 2330.5 | 2 | 23 | 9 | | |
| 10 | 2695 | BOUL | 45 C | 2222 | 2222.5 | 1.5 | 5 | 2 | | |
| 12 | 2800 | OTTA | 20 GRF | 1340 | 1420 | 75 | 1.4 | 0.7 | | |
| 13 | 2800 | OTTA | 20 GRF | 1410 | 1610 | 215 | 1.8 | 0.9 | | |
| | 2800 | OTTA | 27F RF | 1810 | | 140 | 1.2 | 1 | | |
| | 2800 | OTTA | 24 R | 1810 | 1840 | 30 | 1.2 | 0.6 | | |
| | 2800 | OTTA | 24P R | 1840 | | 100 | 1.2 | | | |
| | 2800 | OTTA | 26 FAL | 2020 | 2030 | 10 | -1.2 | -0.6 | | |
| 14 | 2695 | PENT | 2S/F | 0004 | 0005 | 3.5 | 1.4 | 0.7 | | |
| | 2695 | PENT | 20 GRF | 2335 | 2348 | 55 | 1.8 | 0.9 | | |
| 16 | 2800 | OTTA | 240 R | 1403 D | 1410 | 7 E | 2 | | | CALIBRATION |
| | 2800 | OTTA | 24P R | 1410 | | 285 | 2 | | | |
| | 2800 | OTTA | 240 R | 1855 | 1910 | 15 | 1.6 | 0.8 | | |
| | 2800 | OTTA | 24P R | 1910 | | 340 D | 1.6 | | | |
| | 2800 | OTTA | 8 S | 1918.7 | 1918.7 | 0.3 | 2.6 | | | |
| | 2800 | OTTA | 20 GRF | 2000 | 2035 | 90 | 1.8 | 0.9 | | |
| 21 | 2800 | OTTA | 20 GRF | 1925 | 2005 | 95 | 1.4 | 0.7 | | |

Observatories:

BOUL = Boulder MANI = Manila OTTA = Ottawa ARO PENT = Penticton SGMR = Sagamore Hill

Explanation of Type Code:

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 Simple 1 | 6 Minor | 22 Simple 3F | 27 Rise and Fall | 32 Absorption | 44 Noise Storm in Progress |
| 2 Simple 1F | 7 Minor + | 23 Simple 3AF | 28 Precursor | 40 Fluctuation | 45 Complex |
| 3 Simple 2 | 8 Spike | 24 Rise | 29 Post Burst Increase | 41 Group of Bursts | 46 Complex F |
| 4 Simple 2F | 20 Simple 3 | 25 Rise A | 30 Post Burst Increase A | 42 Series of Bursts | 47 Great Burst |
| 5 Simple | 21 Simple 3A | 26 Fall | 31 Post Burst Decrease | 43 Onset of Noise Storm | 48 Major |
| | | | | | 49 Major + |

# SOLAR WIND
## Interplanetary Scintillations
### MARCH 1975

UCSD 74 MHZ SCINTILLATIONS

| DAY | 3C48 VEL | ERR | 3C144 VEL | ERR | 3C147 VEL | ERR | 3C161 VEL | ERR | 3C237 VEL | ERR | 3C273 VEL | ERR | 3C298 VEL | ERR | 3C459 VEL | ERR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 486 | 20 | | | | | | | | | 460 | 64 | 476 | 125 | | |
| 2 | 514 | 30 | | | | | | | | | 588 | 49 | 557 | 38 | | |
| 3 | 347 | 34 | 466 | 105 | | | | | | | | | 382 | 140 | | |
| 4 | | | | | | | 380 | 136 | | | | | | | | |
| 5 | 279 | 23 | 425 | 105 | | | 394 | 12 | | | 598 | 124 | 470 | 39 | | |
| 6 | 352 | 18 | 492 | 141 | | | | | | | | | | | | |
| 7 | 418 | 116 | 477 | 45 | 396 | 70 | | | | | | | | | | |
| 8 | 417 | 57 | 295 | 18 | 325 | 8 | | | | | | | | | | |
| 9 | 412 | 24 | 367 | 81 | 388 | 44 | 338 | 38 | | | | | | | | |
| 10 | 403 | 37 | | | 445 | 103 | 400 | 84 | | | | | | | | |
| 11 | 379 | 98 | | | | | | | 606 | 81 | | | 668 | 257 | | |
| 12 | 527 | 105 | | | | | 478 | 81 | | | | | 648 | 92 | | |
| 13 | 341 | 56 | 547 | 137 | | | 353 | 35 | | | | | 378 | 56 | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | 383 | 47 | | | | | | | | | | | | | | |
| 16 | 323 | 69 | | | | | | | | | | | | | | |
| 17 | | | 322 | 60 | | | | | | | | | | | | |
| 18 | 346 | 46 | 309 | 45 | 255 | 70 | 526 | 56 | | | | | | | | |
| 19 | 405 | 9 | 313 | 9 | 245 | 51 | 414 | 25 | | | | | | | | |
| 20 | 501 | 164 | 377 | 144 | 240 | 32 | | | | | | | | | | |
| 21 | 432 | 33 | 246 | 58 | | | | | | | | | 313 | 66 | | |
| 22 | 291 | 54 | 250 | 16 | 390 | 13 | 484 | 34 | 314 | 148 | | | | | | |
| 23 | 368 | 4 | 302 | 35 | | | 577 | 84 | | | | | | | | |
| 24 | 472 | 34 | | | 515 | 13 | 407 | 45 | | | | | 375 | 185 | | |
| 25 | 462 | 47 | 348 | 70 | 336 | 82 | 422 | 60 | 325 | 64 | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | 439 | 127 | | | | | | | | | | | 608 | 231 | | |
| 28 | | | 433 | 122 | 389 | 69 | 394 | 6 | | | | | | | | |
| 29 | 389 | 109 | | | | | | | | | | | | | | |
| 30 | 551 | 45 | 488 | 164 | | | | | | | | | | | | |
| 31 | 478 | 135 | 385 | 78 | | | 305 | 56 | | | | | | | 382 | 12 |

| MARCH | 5 | | | | 15 | | | | 25 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | UT | LAT | DIST | DLON | UT | LAT | DIST | DLON | UT | LAT | DIST | DLON |
| 3C48 | 23. | 9. | 0.80 | -33. | 22. | 15. | 0.70 | -40. | 22. | 23. | 0.59 | -46. |
| 3C144 | 3. | -7. | 1.09 | -16. | 2. | -7. | 1.04 | -17. | 1. | -7. | 0.99 | -17. |
| 3C147 | 2. | 0. | 1.09 | -14. | 1. | 0. | 1.05 | -15. | 1. | 0. | 1.01 | -16. |
| 3C161 | 4. | -14. | 1.14 | -13. | 3. | -14. | 1.10 | -14. | 3. | -15. | 1.05 | -15. |
| 3C237 | 8. | -8. | 1.29 | -3. | 7. | -8. | 1.28 | -6. | 6. | -7. | 1.26 | -8. |
| 3C273 | 10. | -6. | 1.28 | 5. | 9. | -5. | 1.30 | 2. | 8. | -5. | 1.30 | 0. |
| 3C298 | 11. | -2. | 1.22 | 9. | 11. | -2. | 1.25 | 7. | 10. | -2. | 1.27 | 5. |
| 3C459 | 20. | 47. | 0.18 | -66. | 19. | 62. | 0.15 | 55. | 19. | 29. | 0.27 | 68. |

Sources as given in the 3rd Cambridge Catalog.

# SOLAR X-RAYS BY SATELLITE
## SMS-1 GOES
### MARCH 1975

.5 - 4Å Hourly Averages ($10^{-6}$ watts/$m^2$ /sec)

| MO DA | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | Mean |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/ 1 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/ 2 | B | B | B | 0.02 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/ 3 | B | B | B | B | B | 0.01 | B | B | B | B | B | B | B | B | B | B | 0.63 | B | B | B | B | B | B | B | 0.03 |
| 3/ 4 | B | B | B | B | B | 0.01 | B | B | B | B | B | B | B | B | B | B | 0.09 | B | B | B | B | 2.47 | B | B | 0.11 |
| 3/ 5 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/ 6 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/ 7 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/ 8 | B | B | B | B | 0.01 | B | B | B | B | B | B | B | 0.09 | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/ 9 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | 0.11 | B | B | B | B | B | B | B | B |
| 3/10 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | M | B | B | B | B | B | B | B |
| 3/11 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/12 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/13 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/14 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | M | B | B | B | B | B | B | B | B | B |
| 3/15 | B | B | B | 0.03 | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/16 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/17 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/18 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/19 | B | B | B | 0.02 | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/20 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/21 | B | B | B | M | M | M | B | B | B | B | B | B | B | B | B | B | 0.08 | B | B | B | B | B | B | B | B |
| 3/22 | B | B | B | B | B | M | B | B | B | B | B | B | B | B | B | B | B | 0.01 | 0.03 | B | B | B | B | B | B |
| 3/23 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | M | B | B | B | B | B | B |
| 3/24 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | M | M | B | M | B | B | B | B |
| 3/25 | B | B | B | B | M | M | M | M | M | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/26 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | M | B | B | B | B | B | B | B | B |
| 3/27 | B | B | B | B | M | M | M | M | M | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/28 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | M | B |
| 3/29 | B | B | B | M | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/30 | B | B | B | 0.19 | M | M | M | M | M | M | 0.02 | 0.06 | B | B | B | B | B | B | B | B | B | B | B | B | 0.02 |
| 3/31 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | 1.22 | B | B | B | B | B | B | B | 0.06 |

# SOLAR X-RAYS BY SATELLITE
## SMS-1 GOES
### MARCH 1975

**1 - 8Å Hourly Averages ($10^{-5}$ watts/$m^2$ /sec)**

| MO DA | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | Mean |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/ 1 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/ 2 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/ 3 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 0.01 |
| 3/ 4 | B | B | B | B | 0.03 | 0.07 | B | B | B | B | B | B | B | B | B | B | 0.11 | B | B | B | B | B | B | B | 0.06 |
| 3/ 5 | B | B | B | B | B | 0.03 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/ 6 | B | B | B | B | 0.01 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/ 7 | B | B | B | B | 0.09 | 0.03 | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/ 8 | B | B | B | B | 0.06 | 0.11 | B | B | B | B | B | B | 0.09 | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/ 9 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | 0.10 | B | 0.02 | B | B | B | B | B | B |
| 3/10 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | M | B | B | B | B | B | B | B |
| 3/11 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/12 | B | B | B | B | M | M | B | B | B | 0.01 | B | B | B | 0.01 | B | B | B | B | B | B | B | B | B | B | B |
| 3/13 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/14 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | M | B | B | B | B | B | B | B | B | B |
| 3/15 | B | B | B | 0.02 | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/16 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | 0.02 | B | B | B | B | B |
| 3/17 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 0.02 | B | B |
| 3/18 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/19 | B | B | B | 0.02 | M | M | B | B | B | B | B | B | B | B | B | B | B | B | 0.93 | B | B | B | B | B | 0.02 |
| 3/20 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/21 | B | B | B | M | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/22 | B | B | B | B | B | M | B | 0.02 | B | B | B | B | B | B | B | B | B | B | 0.49 | B | B | 0.01 | B | B | 0.01 |
| 3/23 | 0.03 | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | M | B | B | B | B | B | B |
| 3/24 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | M | M | B | M | B | B | B | B |
| 3/25 | B | B | B | B | M | M | M | M | M | M | M | B | B | B | B | B | B | B | B | B | B | B | B | 0.11 | B |
| 3/26 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | M | B | B | B | B | B | B | B | B |
| 3/27 | B | B | B | B | M | M | M | M | M | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/28 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 0.02 | B | M | B |
| 3/29 | B | B | B | M | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 3/30 | B | B | B | B | M | M | M | M | M | M | B | 0.09 | B | 0.07 | 0.10 | B | B | B | B | B | B | B | B | B | 0.02 |
| 3/31 | B | B | B | B | M | M | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | B | 0.03 |

19
Mar 75

# SOLAR X-RAYS BY SATELLITE
## SMS-1 GOES

MARCH 1975

| DAY | BEGIN TIME | .5-4A | 1-8A | MAX TIME | .5-4A | 1-8A | 1/2P TIME | .5-4A | 1-8A |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1028 | 0.0E+00 | 2.4E-08 | 1031 | 7.9E-09 | 3.3E-06 | 1033 | 0.0E+00 | 1.6E-06 |
| 14 | 2337 | 0.0E+00 | 6.7E-09 | 2352 | 1.7E-07 | 3.2E-06 | 0000 | 1.3E-08 | 1.6E-06 |
| 16 | 1901 | 6.1E-10 | 6.7E-09 | 1916 | 1.7E-07 | 3.2E-06 | 1932 | 2.4E-08 | 1.6E-06 |

# INFERRED IP MAGNETIC FIELD

| BARTELS ROTATION | DATE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1896 | 1972 MAR 10 | A | A | A | A | A | A | A | A | A | A | T | A | T | A | T | A | T | A | T | A | A | A | A | T | T | T | T | T | T | T | T | T | A | T | A | A | A | A |
| 1897 | APR 6 | A | A | T | T | T | T | A | A | A | T | T | T | T | T | T | T | A | T | T | T | T | T | T | T | T | T | T | T | T | T | A | T | A | A | A | A | A | A | A | A | A | T | - | A | A | A | A | T | T | T | A | T | A | A | A |
| 1898 | MAY 3 | A | A | A | A | A | A | T | - | A | A | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | A | A | T | A | A | T | A | A | T | A | A | T | A | A | T | A | T | T | T | A | A | T | T | T | A | A | T | T |
| 1899 | MAY 30 | A | A | A | A | A | * | A | A | A | T | A | * | T | T | T | T | A | A | T | T | T | T | T | T | A | T | T | T | T | T | A | A | A | - | A | - | T | A | - | A | - | A | - | T | T | T | - | A | A | A | A | T | T | T | T | T | T | T | T | T | A | A | A |
| 1900 | JUN 26 | A | A | A | A | A | A | A | T | A | A | T | A | A | A | A | A | A | A | T | A | T | A | T | T | T | T | T | T | A | T | A | A | A | A | A | A | A | T | T | T | A | A | A | A | A | A | A | T | * | T | T | T | T | T | T | T | T | T | T | T | A | T | A |
| 1901 | JUL 23 | T | A | A | * | T | A | A | * | T | A | T | A | A | A | A | A | A | A | A | T | A | A | * | T | A | T | T | T | A | A | A | A | A | A | A | A | T | A | * | T | A | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | A | A | T | A | - |
| 1902 | AUG 19 | A | - | A | - | A | A | A | A | A | A | A | A | A | A | A | T | A | T | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | T | T | T | T | T | T | T | T | T | T | A | A | A | A | T | A | A | A | A | T | A | A | A | - |
| 1903 | SEP 15 | A | A | T | A | T | * | A | A | A | A | A | A | A | A | T | T | A | T | A | A | A | A | A | - | A | - | A | - | A | - | A | - | A | T | T | T | T | T | T | T | T | T | A | - | T | T | T | A | T | A | T | A | A | T | | | | | | | | | | |
| 1904 | OCT 12 | T | T | A | - | T | A | - | A | A | * | A | T | A | T | T | A | T | T | A | A | A | A | A | A | T | T | A | A | A | A | A | T | A | T | A | T | A | T | A | T | T | T | A | T | A | T | T | T | A | T | A | T | T | A | T | A | T | T | A | T | T | A | A | * | A | A |
| 1905 | NOV 8 | A | A | T | A | A | T | A | A | T | A | T | A | T | T | A | T | A | T | T | A | T | A | T | T | A | T | A | A | A | A | A | A | * | T | A | T | A | A | A | A | A | A | T | A | T | A | A | T | A | T | A | T | T | A | T | A | T | A | A | A | A | A | T | A | T | T |
| 1906 | DEC 5 | T | T | T | T | T | A | A | T | T | - | T | - | T | T | T | T | T | A | A | T | A | - | T | A | T | T | A | A | A | T | - | A | - | A | T | T | T | A | A | T | T | T | T | T | T | T | T | A | A | * | A | T | T | T | T | T | T | T | T | A | A | T | T | T |
| 1907 | 1973 JAN 1 | T | T | T | T | T | T | T | T | T | A | T | T | T | A | T | T | A | T | - | A | T | A | T | A | - | A | T | - | A | - | A | T | A | A | A | A | A | A | A | A | A | A | A | T | T | A | - | T | - | T | T | T | - | T | A | T | T | - | T | T | T | T | T | T |
| 1908 | JAN 28 | T | T | A | A | T | T | T | A | T | * | A | T | T | T | T | T | A | T | T | A | A | A | A | T | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T |
| 1909 | FEB 24 | A | T | T | A | T | T | A | T | A | T | T | A | T | T | T | T | - | A | T | T | A | T | A | A | T | A | T | T | T | T | A | A | A | A | A | A | A | A | A | T | A | T | A | A | A | A | A | A | A | T | A | A | T | A | A | T | A | A | T | A | A | T | A | A | T | T | T | T | T | T | T | T |
| 1910 | MAR 23 | T | T | T | T | T | T | T | A | T | T | T | T | T | T | T | T | T | A | T | A | T | A | T | T | T | A | A | A | A | A | A | A | - | A | A | A | A | T | A | A | A | A | A | A | A | A | A | T | T | - | T | - | T | T | A | T | T | T | T | A | T | T | * | T | T | * |
| 1911 | APR 19 | T | T | T | A | T | T | - | A | T | T | T | T | A | T | T | T | A | A | A | A | A | A | T | T | T | T | A | A | A | A | A | A | T | A | * | A | - | A | T | A | A | T | A | A | T | A | T | T | A | T | * | - | A | T | A | A | T | T | - | A | - | T | A | A | * |
| 1912 | MAY 16 | T | T | T | T | T | T | T | T | T | A | T | T | - | T | - | T | A | T | T | A | A | T | A | T | T | T | A | T | A | A | A | - | A | A | A | - | A | A | A | A | * | A | A | A | A | A | A | A | A | A | A | - | T | * | A | - | A | A | - | - | T | T | T | T |
| 1913 | JUN 12 | T | A | T | * | - | T | * | - | T | T | T | A | T | * | A | A | T | T | - | T | * | T | T | T | T | T | T | A | T | A | T | A | A | A | A | A | A | A | A | A | A | A | T | A | * | - | T | T | - | A | A | A | A | A | A | A | * | A | T | - | T | T | A | A | - | A | T | T |
| 1914 | JUL 9 | T | T | T | T | A | A | T | T | - | T | A | T | A | T | T | * | A | T | * | - | A | A | A | T | * | - | A | A | T | T | A | T | A | - | T | T | T | T | T | A | A | - | A | * | A | A | A | A | A | * | A | T | A | - | A | A | T | A | T | T | * | T | T | * | T | T |
| 1915 | AUG 5 | T | T | A | A | A | A | T | A | T | A | A | A | T | T | T | * | T | T | A | T | * | T | A | T | A | T | T | T | A | A | A | A | T | A | T | T | T | T | A | A | A | A | A | A | A | A | A | T | A | T | T | T | T | A | A | A | A | A | A | T | A | A | * | A | A | A |
| 1916 | SEP 1 | T | T | A | * | T | T | T | T | A | A | T | A | A | A | A | T | A | * | A | A | A | A | * | T | T | T | T | T | T | T | T | A | A | A | A | A | T | T | T | T | T | T | T | T | A | T | T | T | T | T | T | A | A | T | * | A | A | A | A | T | A | * | A | A |
| 1917 | SEP 28 | A | A | * | T | A | A | T | A | T | T | T | A | A | A | A | A | A | T | A | T | A | A | * | A | T | * | A | T | A | T | T | T | T | T | T | T | T | * | T | T | T | T | T | T | T | T | T | * | A | T | T | A | T | A | T | T | T | T | T | T | T | T | T | T | T | T |
| 1918 | OCT 25 | T | T | T | T | A | T | A | A | A | A | T | A | T | * | T | A | T | A | A | A | A | A | A | T | A | T | A | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T |
| 1919 | NOV 21 | A | * | T | T | T | - | A | A | A | A | A | T | T | A | T | A | T | A | T | * | A | T | A | A | A | A | A | A | A | T | A | T | T | T | T | T | T | T | T | * | T | T | T | T | T | A | T | A | A | T | T | T | - | T | A | A | T | A | A | A | T | T | T | T |
| 1920 | DEC 18 | T | T | A | T | A | A | T | A | T | A | T | A | T | A | * | A | A | A | * | A | T | T | T | T | T | T | T | T | T | * | T | T | T | T | T | T | T | A | T | A | T | T | A | T | T | T | T | T | T | T | T | A | T | T | T | T | A | A | T | T | T | T | T | T |
| 1921 | 1974 JAN 14 | T | A | A | T | - | T | T | A | A | T | A | A | A | A | A | A | A | - | A | A | - | A | T | - | T | T | T | T | A | T | * | T | A | T | T | T | T | T | T | A | * | A | T | T | A | T | T | A | T | A | T | - | T | T | T | T | T | T | T | T | A | A |
| 1922 | FEB 10 | A | - | A | - | A | * | A | A | A | A | A | A | A | A | A | T | A | A | A | A | A | T | * | T | T | T | T | T | T | T | A | T | - | T | T | T | T | T | T | T | T | T | A | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | A | A | A | A |
| 1923 | MAR 9 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | T | T | T | A | T | A | A | T | A | A | A | A | A | T | A | T | A | T | A | T | T | A | T | T | T | A | T | A | A | T | A | T | T | T | T | T | T | T | T | T | T | T | T | T | T | A | T | A | T | A | T | A | T | A |
| 1924 | APR 5 | A | A | A | A | A | - | T | A | A | A | A | A | A | A | A | * | A | A | A | A | A | A | A | A | T | T | T | A | T | A | T | A | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | A | T | A | A | A | T | T | A | A | A | - | - | - |
| 1925 | MAY 2 | - | - | A | A | A | A | * | A | T | T | A | A | T | A | T | T | A | T | * | T | A | A | A | A | T | A | T | * | A | * | A | T | A | T | T | T | T | T | T | T | T | T | T | A | T | * | T | T | T | T | T | T | A | T | - | T | T | A | T | - | - | - |
| 1926 | MAY 29 | T | T | A | A | A | * | - | A | A | A | A | * | A | A | * | - | T | A | * | A | A | A | A | A | T | T | T | T | A | T | A | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | A | T | * | - | T |
| 1927 | JUN 25 | T | A | T | A | A | A | - | A | - | A | A | T | A | A | A | A | A | A | A | A | A | A | - | T | A | T | A | - | T | T | T | T | T | T | T | T | T | - | T | T | - | T | T | T | T | T | T | T | T | T | T | A | A | T | A | T | T | T | T | T | T | T | T |
| 1928 | JUL 22 | T | T | T | A | A | A | A | A | T | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | - | T | - | T | - | T | - | T | - | T | - | A | T | - | A | T | - | T | - | T | - | T | - | T | - | T | - | T | - | T | - | T | - |
| 1929 | AUG 18 | A | T | - | A | - | A | - | A | - | A | - | A | - | A | - | A | - | A | T | - | T | A | T | T | T | T | T | T | T | T | T | T | T | T | T | T | A | A | T | T | T | T | T | T | A | T | T | T | A | T | T | T | A | A | T | - | T | T | T | T | T | T | - | A | - |
| 1930 | SEP 14 | A | T | T | T | A | T | A | * | A | A | A | A | A | A | A | A | T | A | A | T | A | A | A | A | A | T | T | T | A | A | T | A | T | T | A | T | T | T | T | T | T | T | T | - | T | T | T | A | T | T | T | T | T | T | A | T | T | A | A | T | T | T | T | T |
| 1931 | OCT 11 | T | T | T | A | T | A | A | A | A | A | A | A | A | A | A | A | A | A | A | T | A | A | A | T | A | A | A | T | T | A | T | - | T | T | A | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T |
| 1932 | NOV 7 | T | A | - | T | - | A | - | A | - | A | A | A | A | A | A | A | A | A | A | - | A | - | A | T | - | A | T | T | T | T | T | T | T | T | T | A | T | * | T | A | T | T | * | T | A | T | T | T | T | T | T | T | T | T | T | A | T | A | T | T | T | T | T | T |
| 1933 | DEC 4 | T | T | T | A | T | T | A | T | A | A | A | T | A | T | A | * | A | T | T | * | A | T | A | A | * | A | T | A | A | A | A | A | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T |
| 1934 | DEC 31 | T | A | T | T | T | T | A | T | A | A | T | A | T | A | T | A | - | A | - | T | A | T | A | A | A | T | - | A | A | * | A | * | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T |
| 1935 | 1975 JAN 27 | T | T | T | T | T | A | T | A | T | T | A | A | * | A | T | - | T | A | A | T | A | T | A | T | A | T | A | T | A | T | A | T | - | T | T | T | T | T | T | A | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T |
| 1936 | FEB 23 | T | A | A | A | A | A | * | T | A | A | A | T | A | A | A | A | A | A | A | A | A | A | A | A | A | A | T | T | A | A | A | A | A | A | A | T | T | T | T | T | T | A | T | A | * | T | T | T | T | T | T | A | T | A | T | T | T | T | T | T | T | T | T | T | A | A |
| 1937 | MAR 22 | A | A | A | A | T | A | A | T | T | A | A | * | A | A | A | A | A | A | A | A | T | A | * | T | A | | | | | | | | | |

# FEBRUARY 1975 DATA

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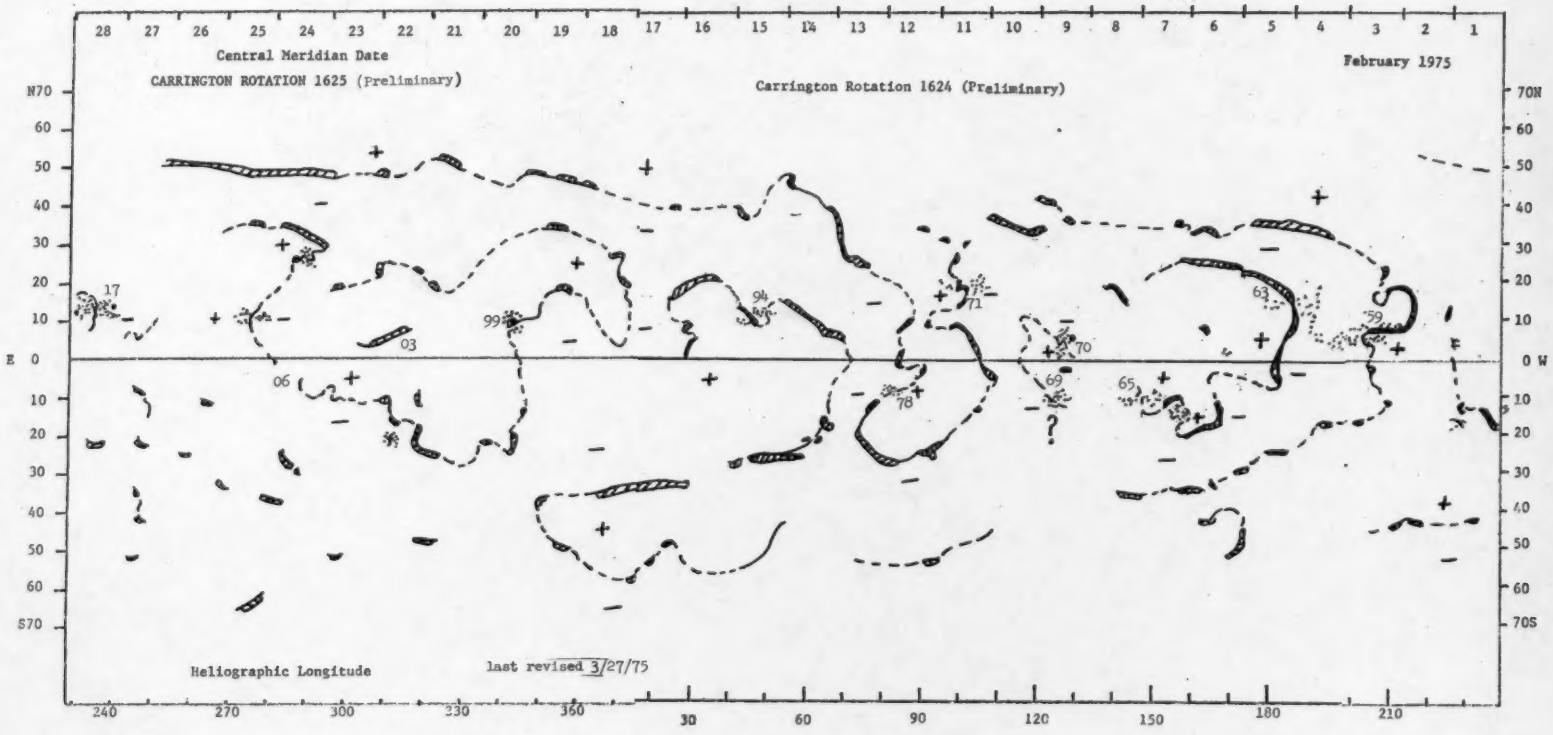
Erratum: See page 102.

# Hα SYNOPTIC CHART

**FEBRUARY 1975**

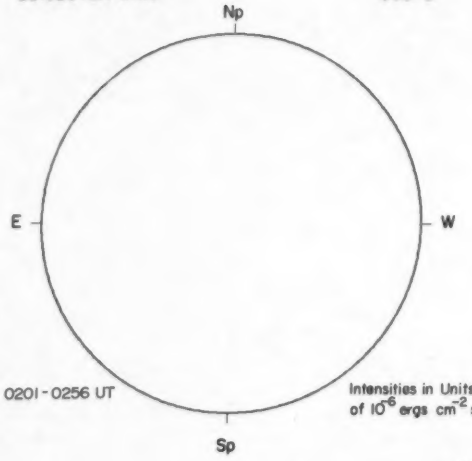



25
Feb 75

# FEBRUARY 1, 1975 (P = -11.97, $B_o$ = -6.01, $L_o$ = 237.98)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

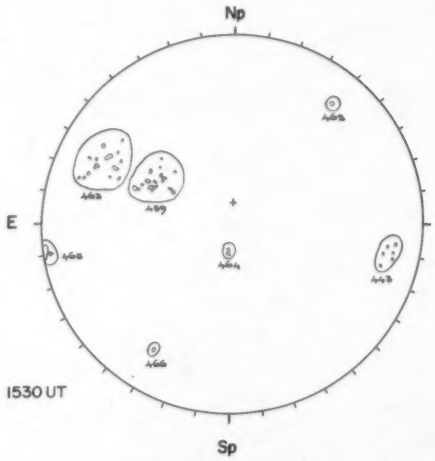



0201 - 0256 UT

Intensities in Units of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

McMATH-HULBERT

CALCIUM REPORT

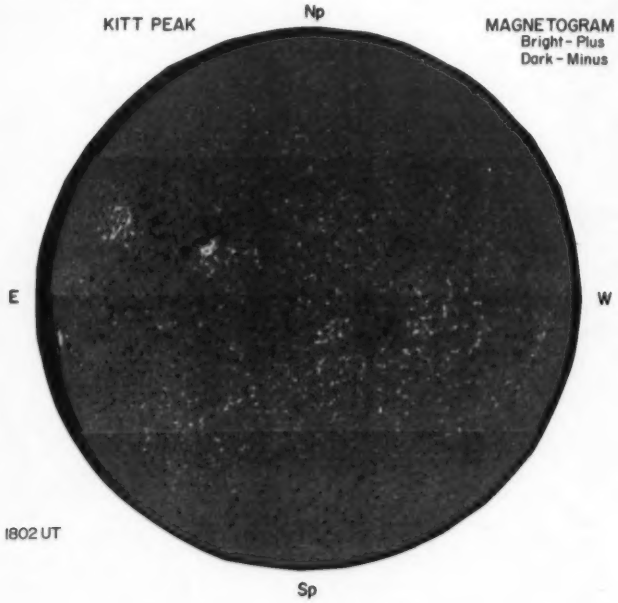



| FAIR | S |
|---|---|
| 59 - 0900 | - 2.5 |
| 65 - 0900 | - 2.5 |

1530 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus




1802 UT

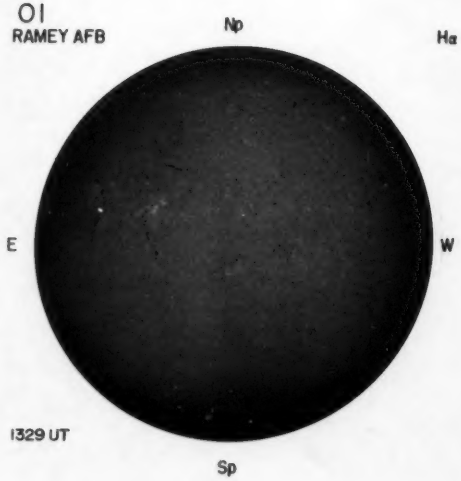
MT. WILSON

DELTAY =
DELTAX =

MAGNETOGRAM
Solid - Plus
Dotted - Minus

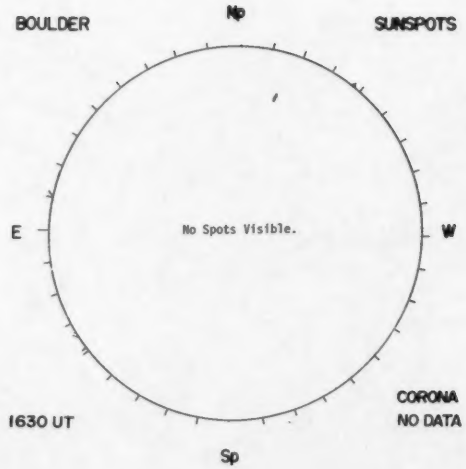
Levels
± 5
± 10
± 20
± 40
± 80

01
RAMEY AFB




1329 UT

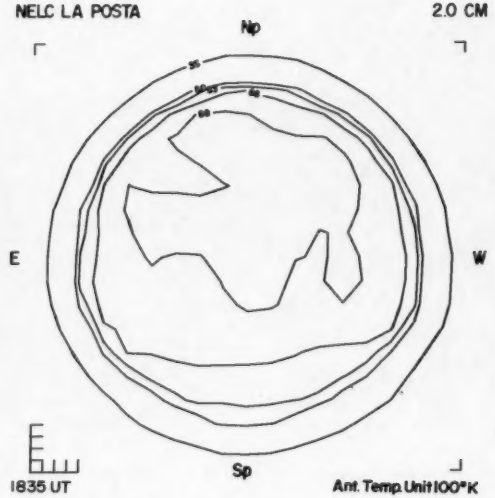
BOULDER




1630 UT

CORONA
NO DATA

NELC LA POSTA




1835 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

Ant. Temp. Unit 100°K

27
Feb 75

# FEBRUARY 2, 1975 (P = -12.38, $B_o$ = -6.08, $L_o$ = 224.82)

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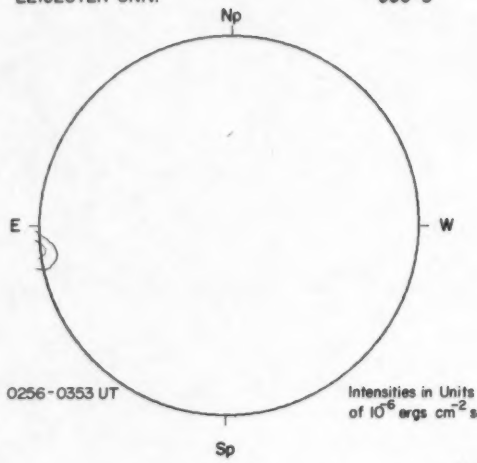
LEICESTER UNIV.

X-RAY
OSO-5

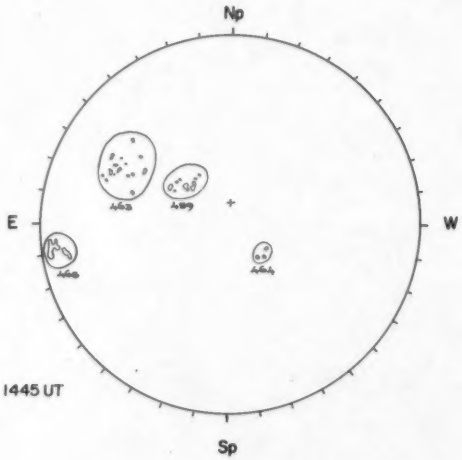



0256 - 0353 UT

Intensities in Units of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

McMATH-HULBERT

CALCIUM REPORT

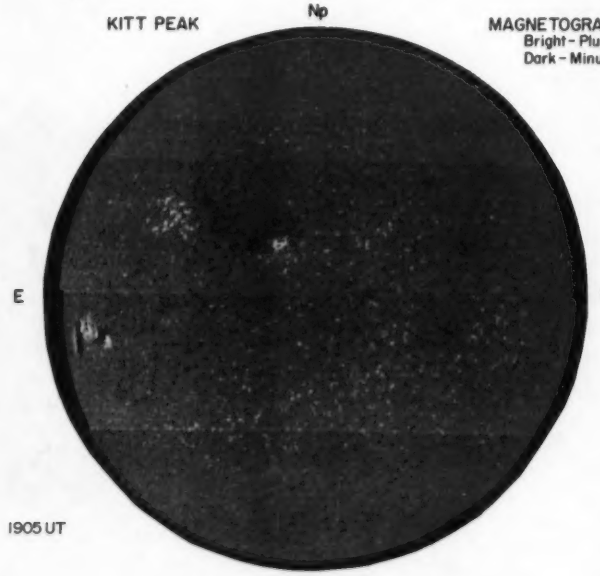



1445 UT

| FAIR | D |
|---|---|
| 59 - 0700 | -2.5 |
| 65 - 1600 | -3.5 |

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus




1905 UT

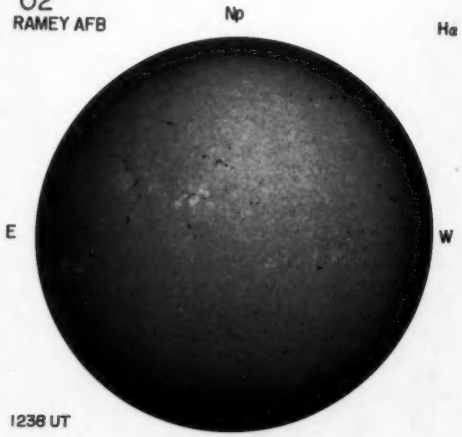
MT. WILSON

DELTAY =
DELTAX =

MAGNETOGRAM
Solid - Plus
Dotted - Minus

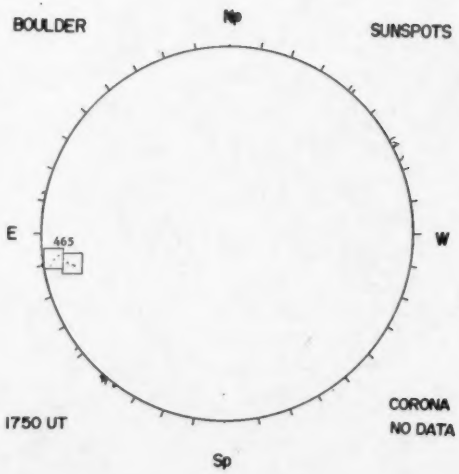
Levels
± 5
± 10
± 20
± 40
± 80

02
RAMEY AFB



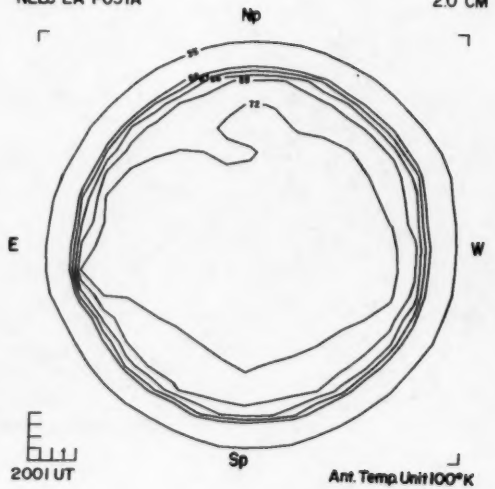

1238 UT

BOULDER




1750 UT

NELC LA POSTA




2001 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

Ant. Temp. Unit 100°K

29
Feb 75

# FEBRUARY 3, 1975 (P=-12.78, $B_o$=-6.15, $L_o$=211.65)

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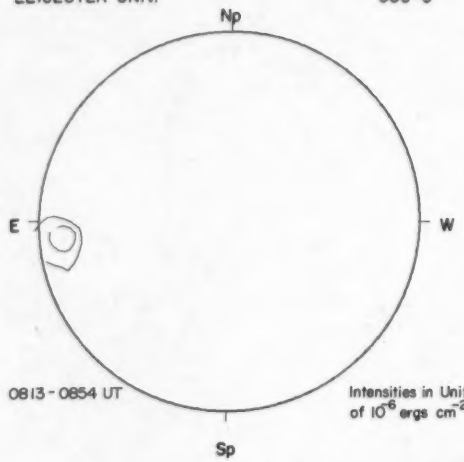
LEICESTER UNIV.

X-RAY
OSO-5

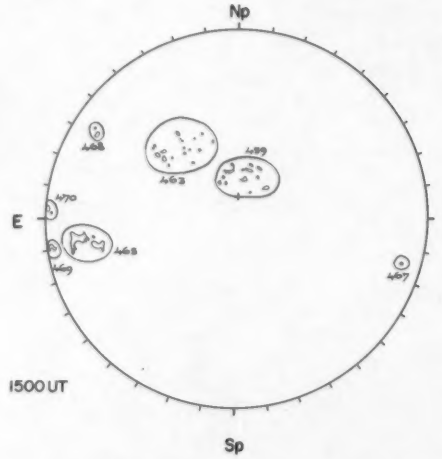



0813 - 0854 UT

Intensities in Units of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

McMATH-HULBERT

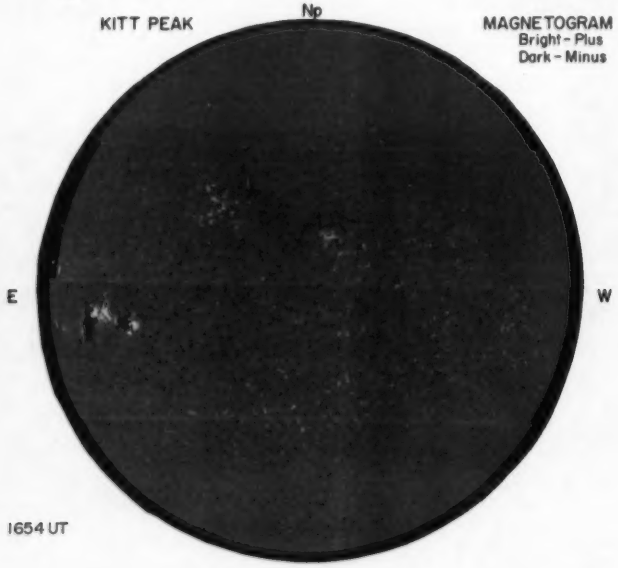
CALCIUM REPORT




1500 UT

FAIR | S
65 - 2000 -3.5

KITT PEAK




1654 UT

MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

DELTAY=
DELTAX=

MAGNETOGRAM
Solid - Plus
Dotted - Minus

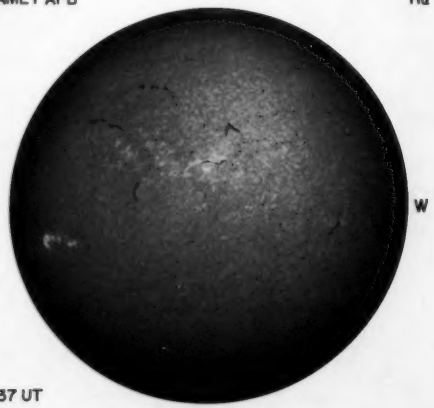
Levels
± 5
± 10
± 20
± 40
± 80

03

RAMEY AFB

Np

Hα



E

W

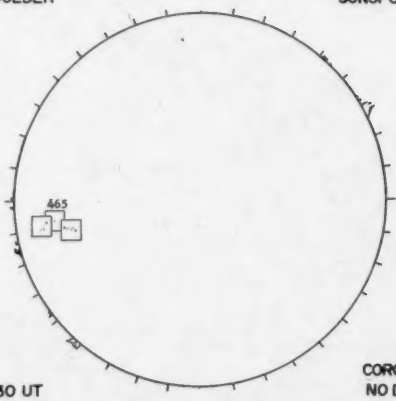
1237 UT

Sp

BOULDER

Np

SUNSPOTS




E

W

1630 UT

CORONA
NO DATA

Sp

NELC LA POSTA

Np

2.0 CM

NO DATA

E

CLOUDY

W

Sp

2243 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

W

Sp

Ant. Temp. Unit 100°K

31
Feb 75

# FEBRUARY 4, 1975 (P = -13.18, $B_o$ = -6.22, $L_o$ = 198.48)

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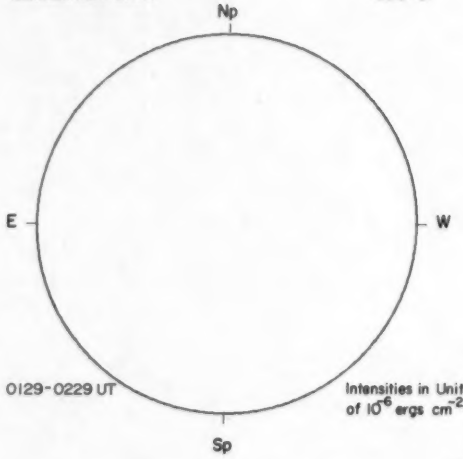
X-RAY
OSO-5




0129-0229 UT

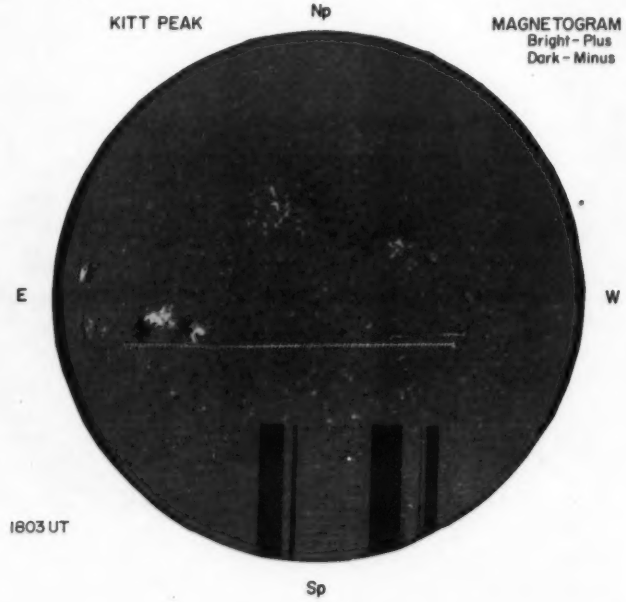
Intensities in Units of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

McMATH-HULBERT

CALCIUM REPORT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

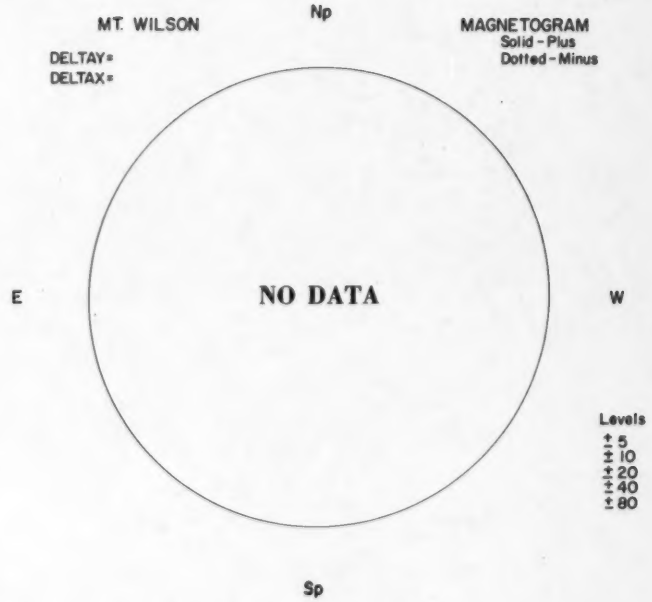



1803 UT

MT. WILSON

DELTAY=
DELTAX=

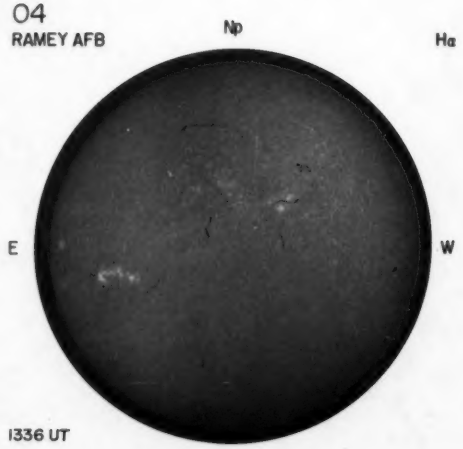
MAGNETOGRAM
Solid - Plus
Dotted - Minus




Levels
±5
±±10
±±20
±±40
±80

04

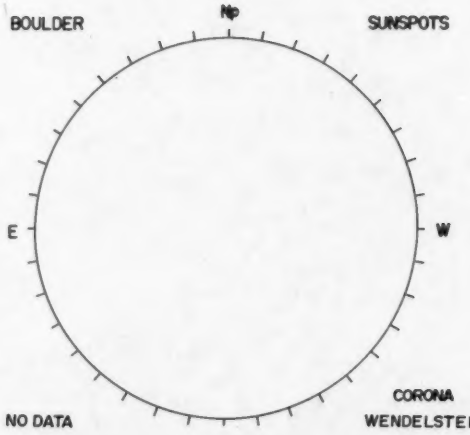
RAMEY AFB




1336 UT

BOULDER

SUNSPOTS



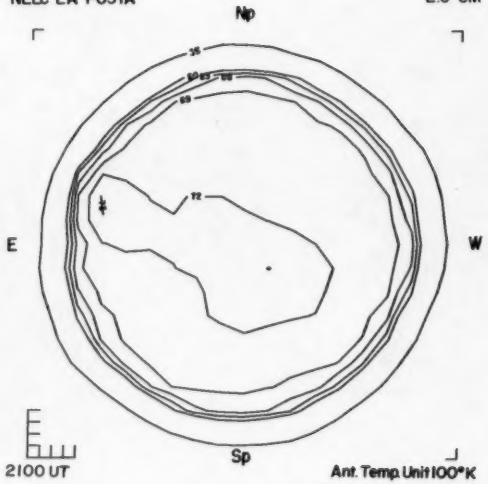

NO DATA

CORONA

WENDELSTEIN

NELC LA POSTA

2.0 CM




2100 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Ant. Temp. Unit 100°K

# FEBRUARY 5, 1975 (P=-13.57, $B_o$=-6.28, $L_o$=185.32)

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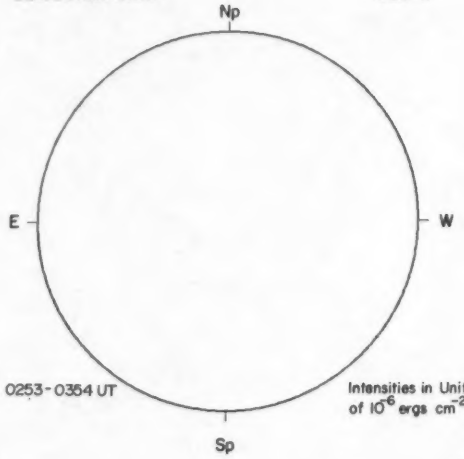
X-RAY
OSO-5

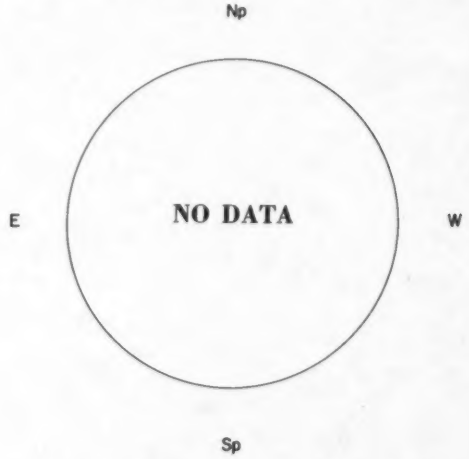



0253-0354 UT

Intensities in Units of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

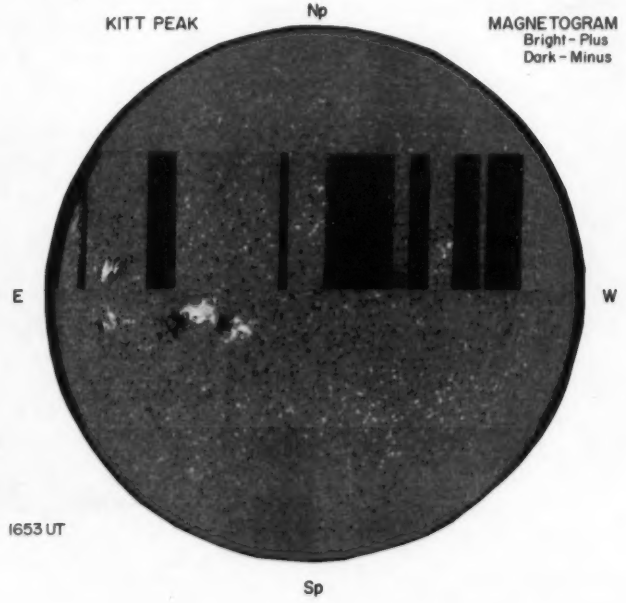
McMATH-HULBERT

CALCIUM REPORT




KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

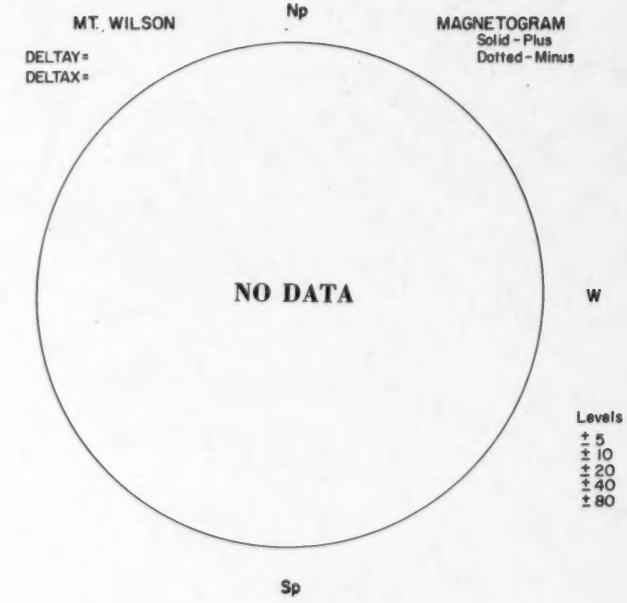



1653 UT

MT. WILSON

DELTAY=
DELTAX=

MAGNETOGRAM
Solid - Plus
Dotted - Minus

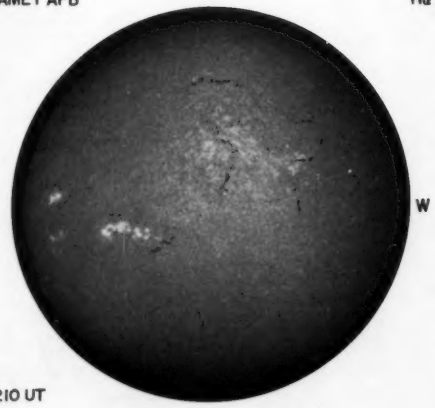



Levels
± 5
± 10
± 20
± 40
± 80

05
RAMEY AFB

Np

Hα



E

W

1210 UT

Sp

BOULDER

Np

SUNSPOTS

E

W

NO DATA

Sp

CORONA
KISLOVODSK
NO DATA 245°-255°

NELC LA POSTA

Np

2.0 CM

NO DATA

E

CLOUDY

W

Sp

1725 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

W

Sp

Ant. Temp. Unit 100°K

# FEBRUARY 6, 1975 (P=-13.96, $B_o$=-6.35, $L_o$=172.15)

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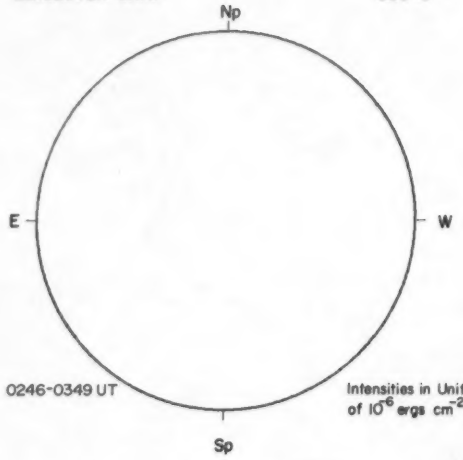
LEICESTER UNIV.

X-RAY
OSO-5

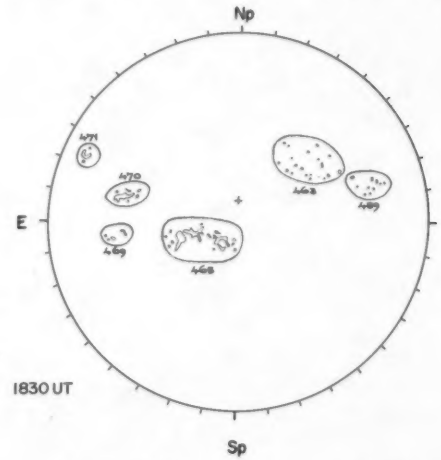



0246-0349 UT

Intensities in Units of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

McMATH-HULBERT

CALCIUM REPORT

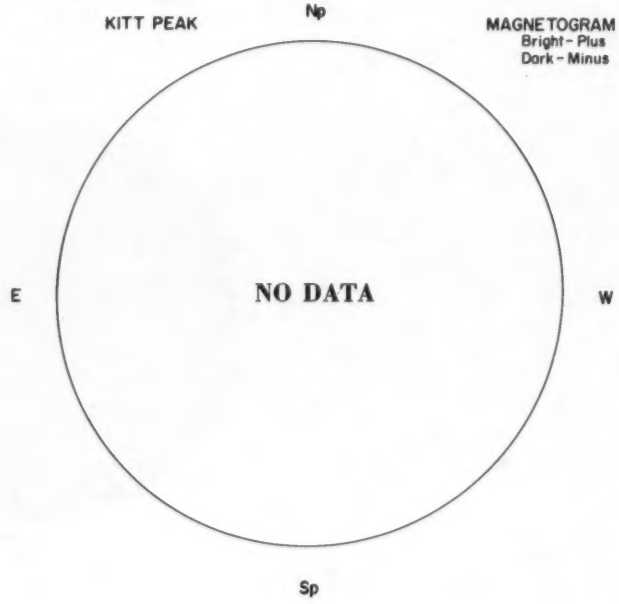



1830 UT

| POOR | S |
|---|---|
| 65 - 1700 | - 2.5 |
| 70 - 0600 | - 3.0 |

KITT PEAK

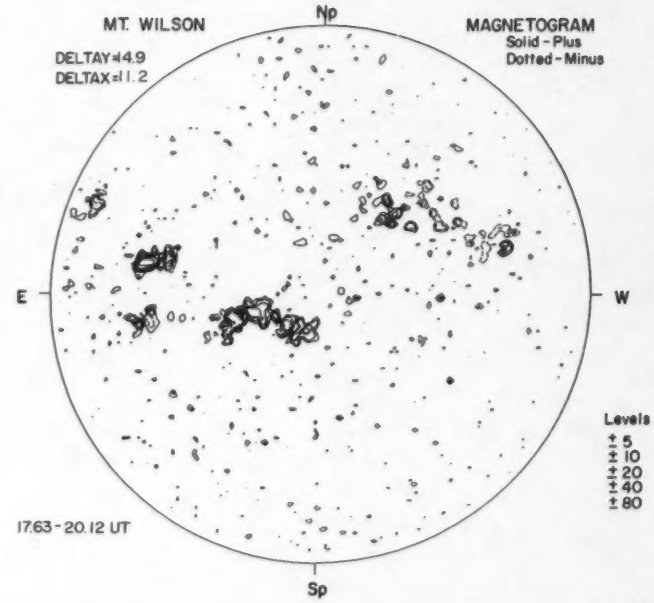
MAGNETOGRAM
Bright - Plus
Dark - Minus




MT. WILSON

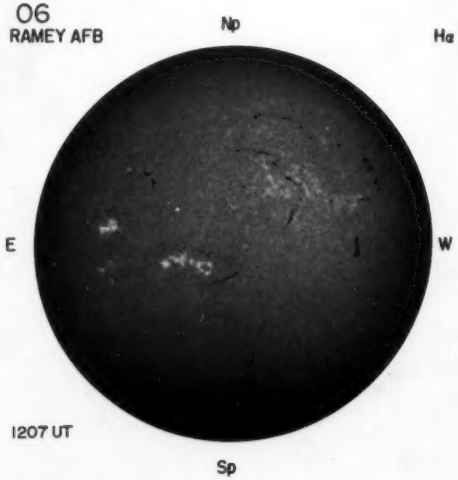
MAGNETOGRAM
Solid - Plus
Dotted - Minus

DELTAY=14.9
DELTAX=11.2



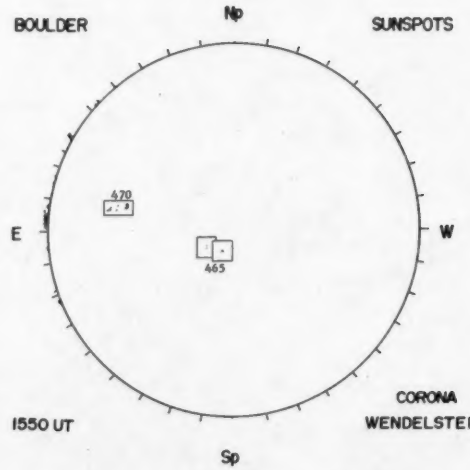

17.63 - 20.12 UT

06
RAMEY AFB




1207 UT

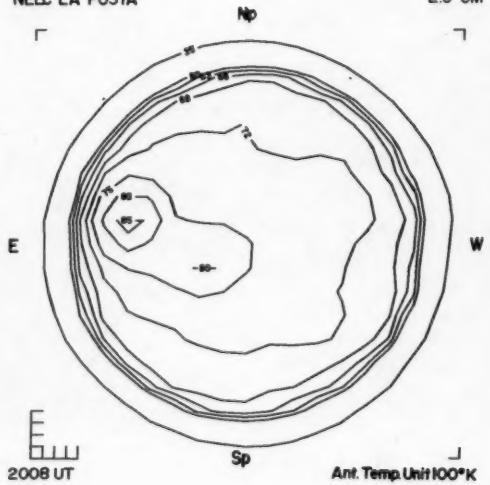
BOULDER




CORONA
WENDELSTEIN

1550 UT

NELC LA POSTA




2008 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

Ant. Temp. Unit 100°K

37
Feb 75

# FEBRUARY 7, 1975 (P=-14.35, $B_o$=-6.41, $L_o$=158.98)

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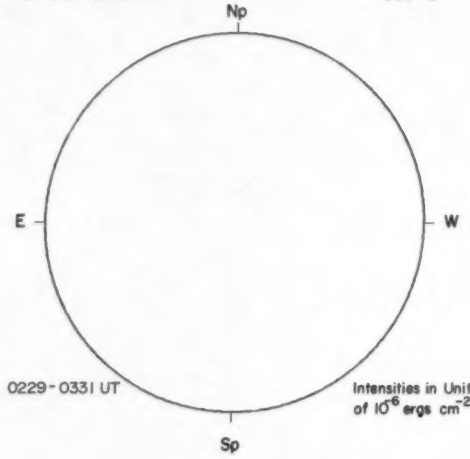
X-RAY
OSO-5

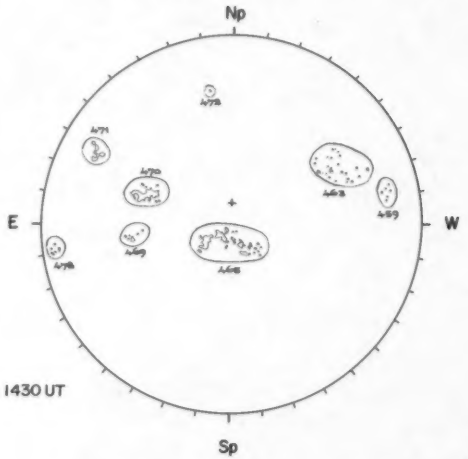



0229-0331 UT

Intensities in Units of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

McMATH-HULBERT

CALCIUM REPORT

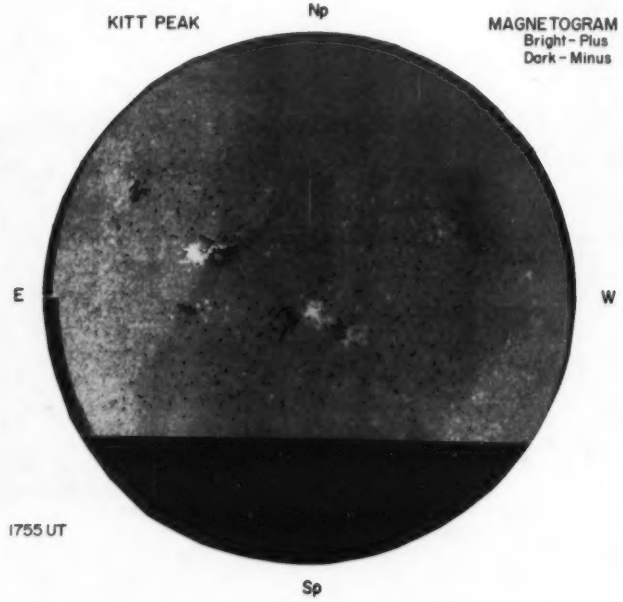



1430 UT

| POOR | M |
|---|---|
| 65 - 1300 | - 2.5 |
| 70 - 1100 | - 3.5 |

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

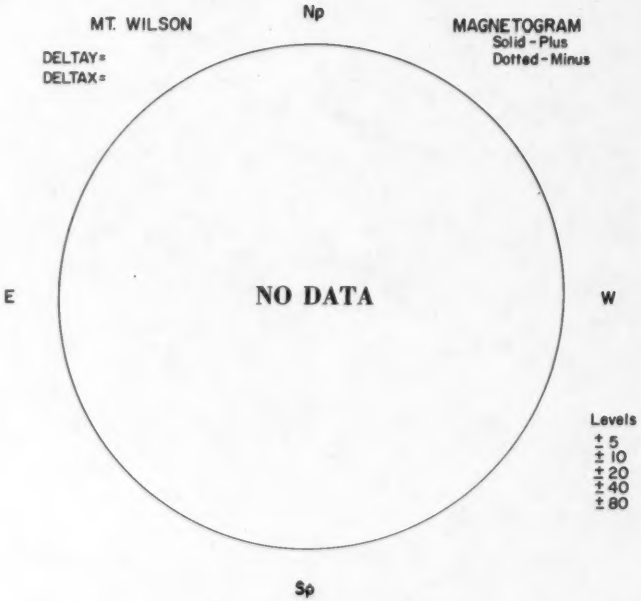



1755 UT

MT. WILSON

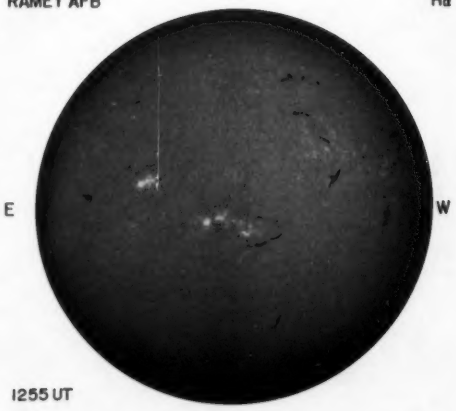
DELTAY=
DELTAX=

MAGNETOGRAM
Solid - Plus
Dotted - Minus



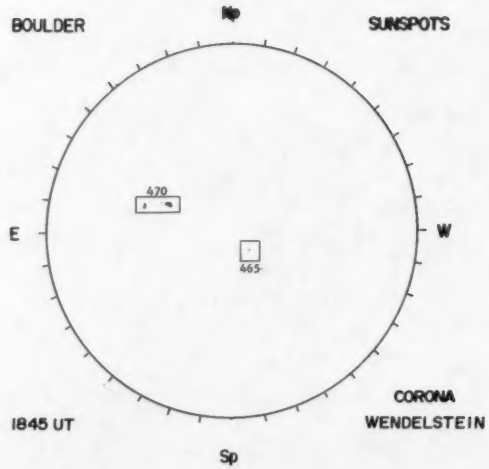

Levels
± 5
± 10
± 20
± 40
± 80

07
RAMEY AFB




1255 UT

BOULDER

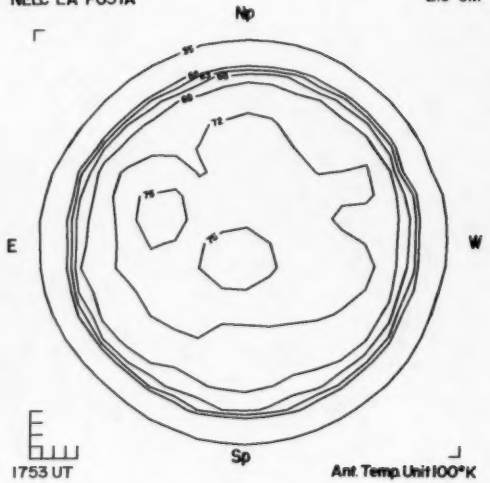



1845 UT

CORONA
WENDELSTEIN

NELC LA POSTA

2.0 CM




1753 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Ant. Temp. Unit 100°K

# FEBRUARY 8, 1975 (P=-14.73, $B_o$=-6.47, $L_o$=145.82)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT

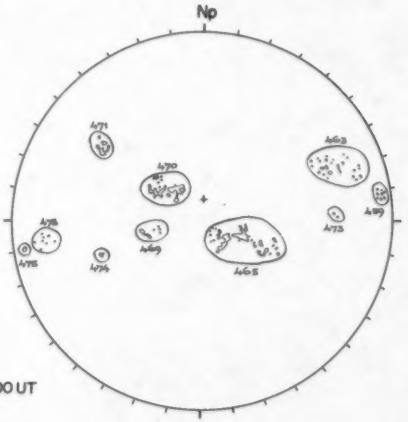
Np

E

Note: Computer down. Data not available for February 8 - 28, 1975. See Miscellaneous Section of this issue for January 1975 maps.

W

Sp



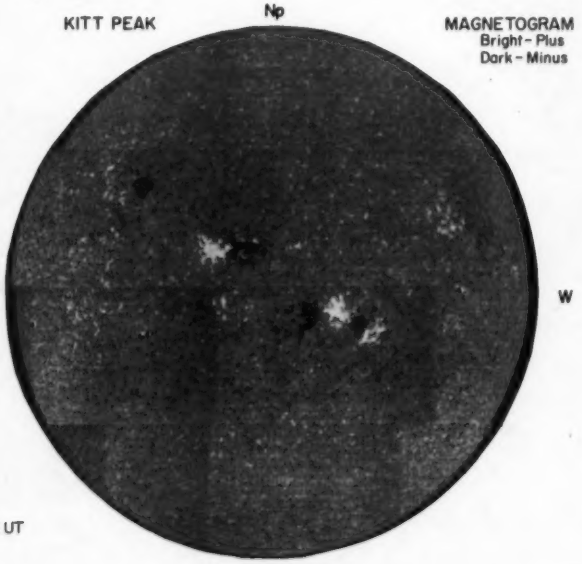

| FAIR | M |
|---|---|
| 65 - 1200 | 2.5 |
| 70 - 0900 | 3.0 |
| 75 - 0200 | 2.5 |

1700 UT

Intensities in Units of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

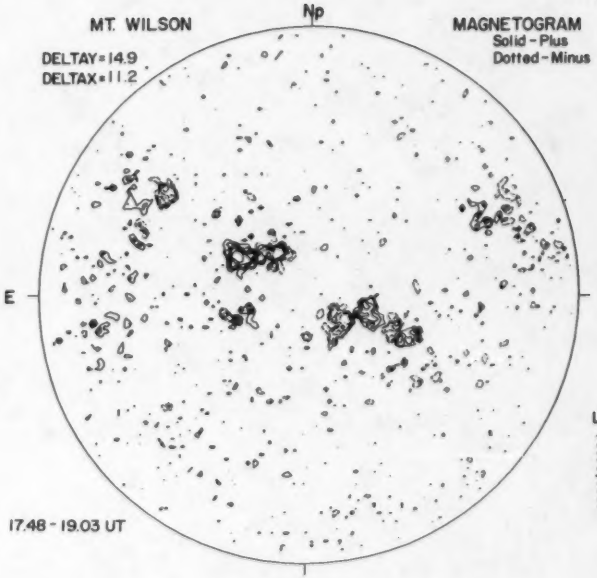



1948 UT

MT. WILSON

DELTAY=14.9
DELTAX=11.2

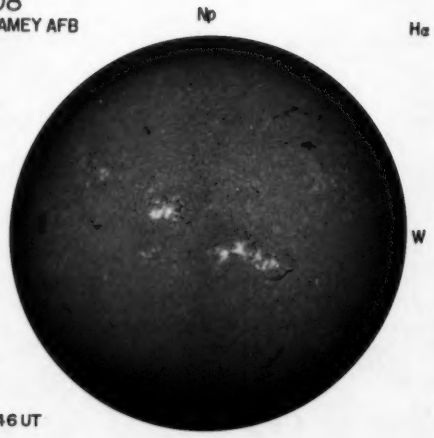
MAGNETOGRAM
Solid - Plus
Dotted - Minus




Levels
±5
±10
±20
±40
±80

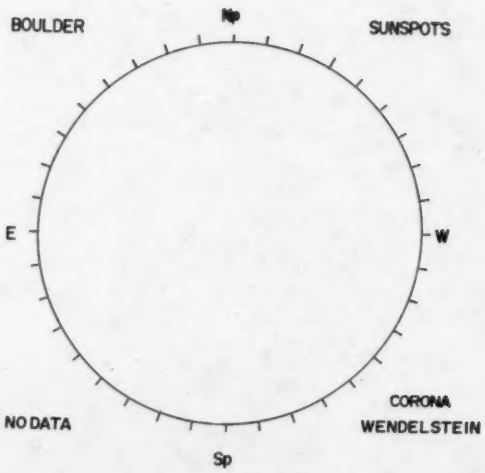
17.48 - 19.03 UT

08
RAMEY AFB

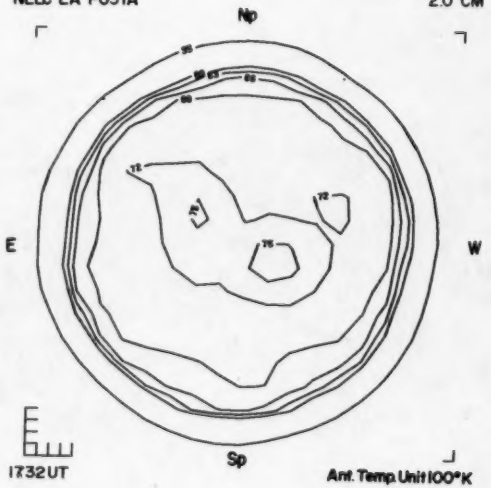



1146 UT

BOULDER




NELC LA POSTA




1732UT

Ant. Temp. Unit 100°K

NELC LA POSTA

Ant. Temp. Unit 100°K

# FEBRUARY 9, 1975 (P = -15.10, $B_o$ = -6.52, $L_o$ = 132.65)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

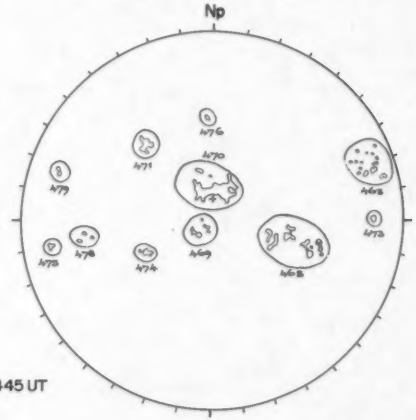
X-RAY
OSO-5

Np
E W
Sp

Intensities in Units
of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

McMATH-HULBERT

CALCIUM REPORT

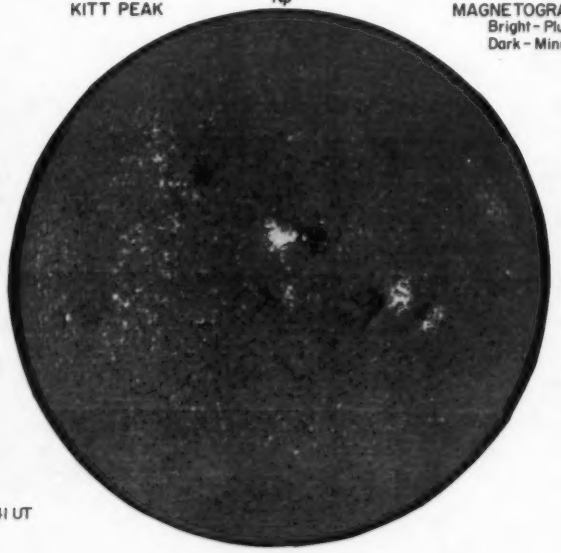



| FAIR | D |
|---|---|
| 65 - 1200 | - 2.5 |
| 70 - 1500 | - 3.0 |
| 71 - 0500 | - 2.5 |
| 75 - 0200 | - 2.5 |

1445 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus




1841 UT

MT. WILSON

DELTAY=
DELTAX=

MAGNETOGRAM
Solid - Plus
Dotted - Minus

NO DATA

Levels
± 5
± 10
± 20
± 40
± 80

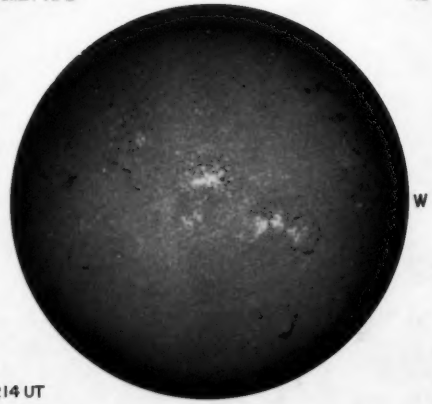
09
RAMEY AFB

Np

Hα

E

W



1214 UT

Sp

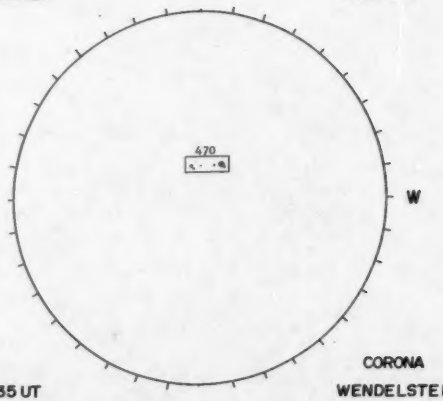
BOULDER

Np

SUNSPOTS

E

W




1735 UT

Sp

CORONA
WENDELSTEIN

NELC LA POSTA

Np

2.0 CM

NO DATA

E

W

WEATHER

NO DATA

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

W

Sp

Ant. Temp. Unit 100°K

# FEBRUARY 10, 1975 (P = -15.47, $B_o$ = -6.58, $L_o$ = 119.48)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

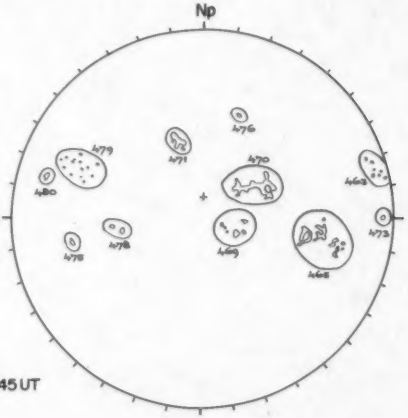
Np

E W

Sp

Intensities in Units
of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

McMATH-HULBERT

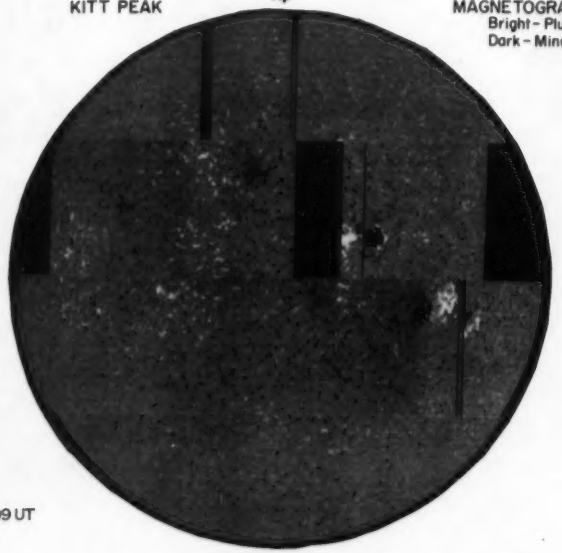



1645 UT

CALCIUM REPORT

| FAIR | S |
|---|---|
| 65 - 1300 | - 2.5 |
| 70 - 1600 | - 3.0 |
| 71 - 0500 | - 2.5 |

KITT PEAK

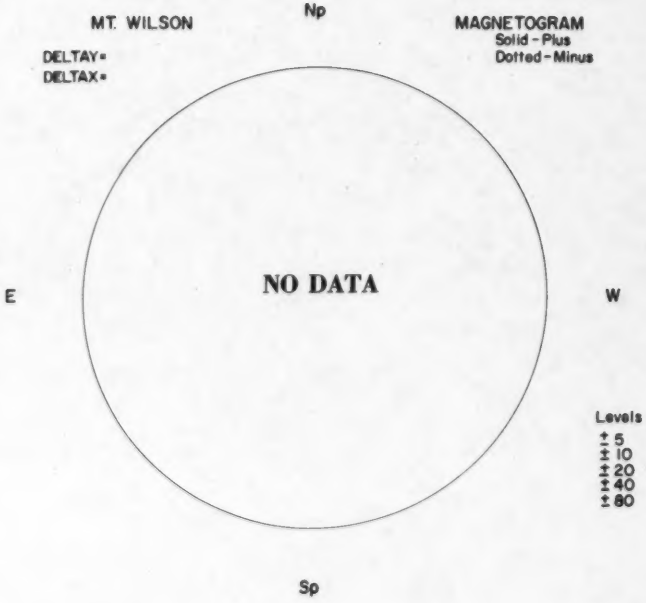



1809 UT

MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

DELTAY=
DELTAX=

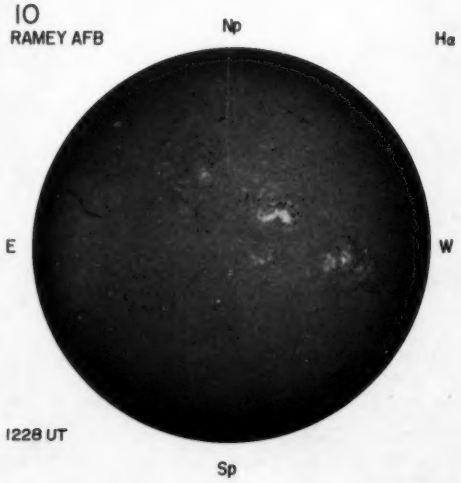



MAGNETOGRAM
Solid - Plus
Dotted - Minus

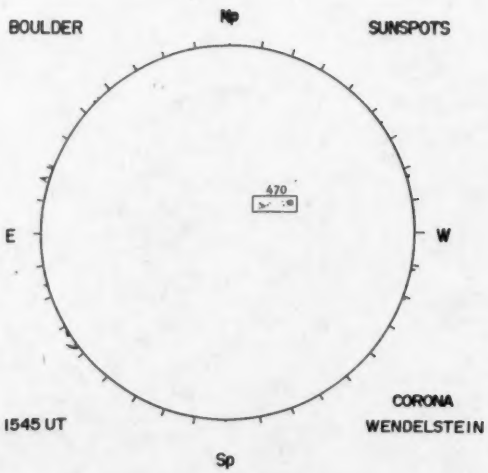
Levels
± 5
± 10
± 20
± 40
± 80

10

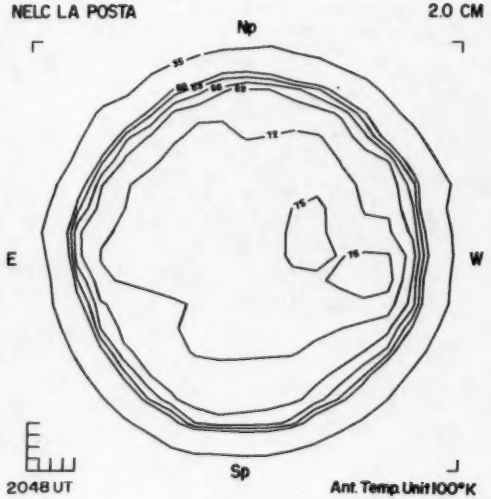
RAMEY AFB




BOULDER




NELC LA POSTA




NELC LA POSTA

# FEBRUARY 11, 1975 (P=-15.84, $B_o$=-6.63, $L_o$=106.32)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

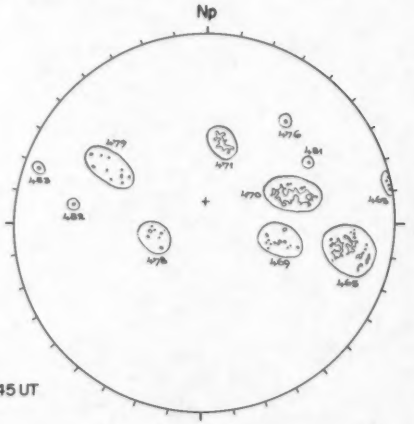
X-RAY
OSO-5

Np
E W
Sp

Intensities in Units
of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

McMATH-HULBERT

CALCIUM REPORT

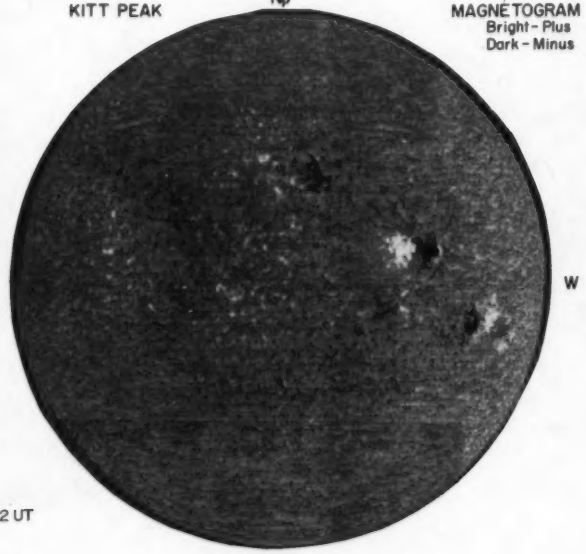



FAIR | M
70 - 1600 - 2.5

1545 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

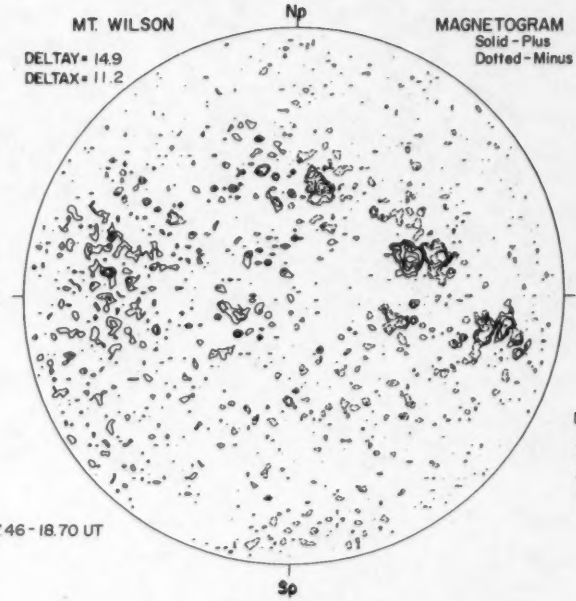



1902 UT

MT. WILSON

DELTAY = 14.9
DELTAX = 11.2

MAGNETOGRAM
Solid - Plus
Dotted - Minus




Levels
± 5
± 10
± 20
± 40
± 80

17.46 - 18.70 UT

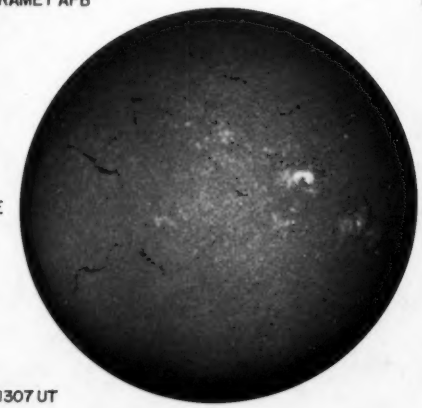
RAMEY AFB

Np

Hα

E

W



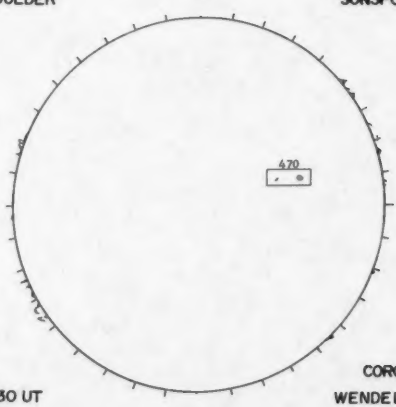
1307 UT

Sp

BOULDER

Np

SUNSPOTS




E

W

CORONA
WENDELSTEIN

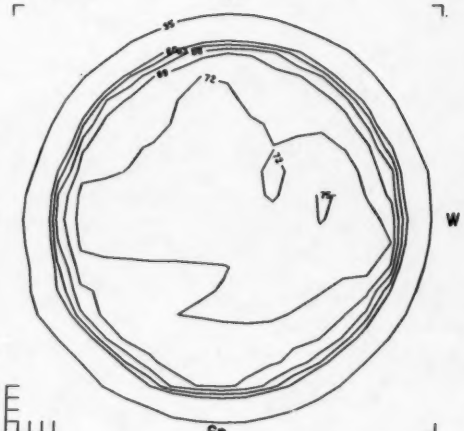
1730 UT

Sp

NELC LA POSTA

2.0 CM

Np




E

W

Sp

2030 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Np

E

W

Sp

Ant. Temp. Unit 100°K

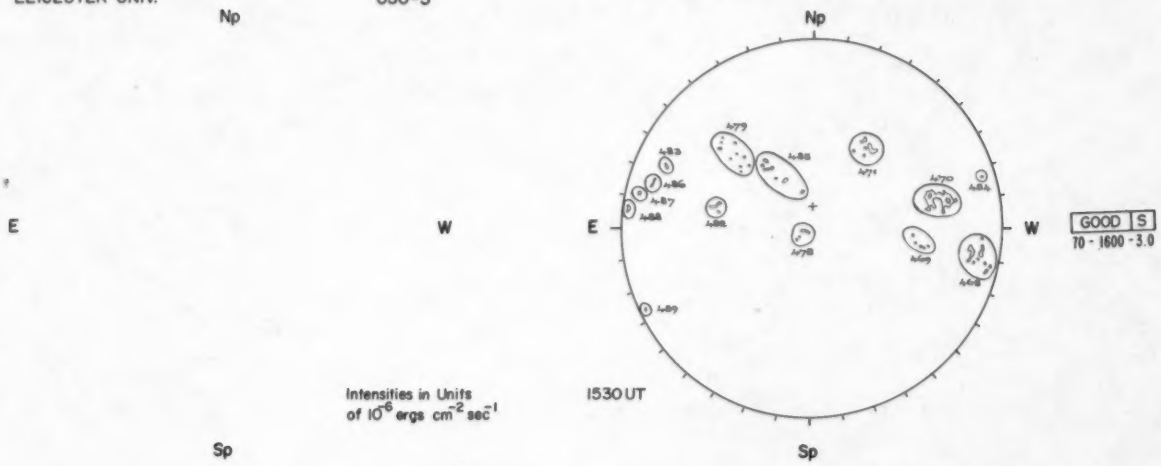
# FEBRUARY 12, 1975 (P=- 16.20, $B_o$=-6.68, $L_o$=93.15)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT

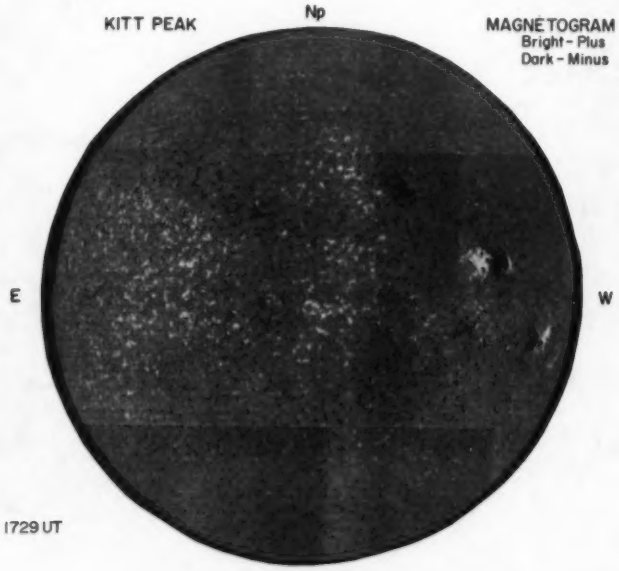



Intensities in Units of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

1530 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

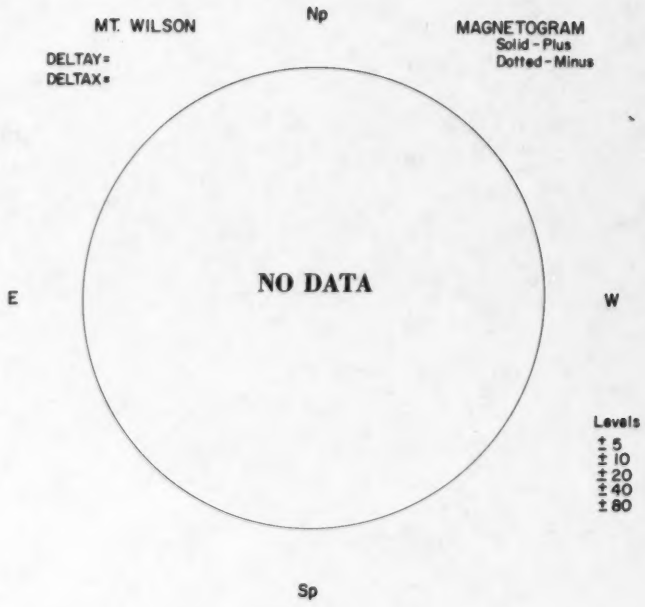



1729 UT

MT. WILSON

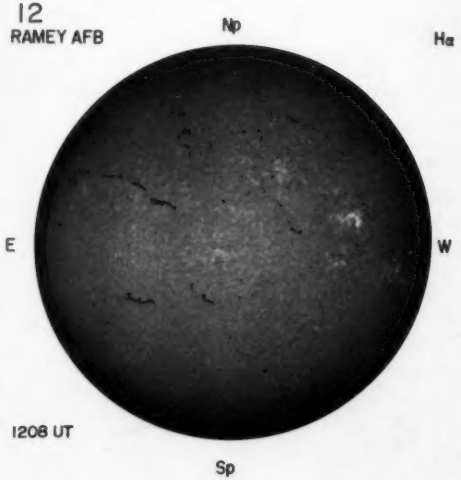
DELTAY=
DELTAX=

MAGNETOGRAM
Solid - Plus
Dotted - Minus

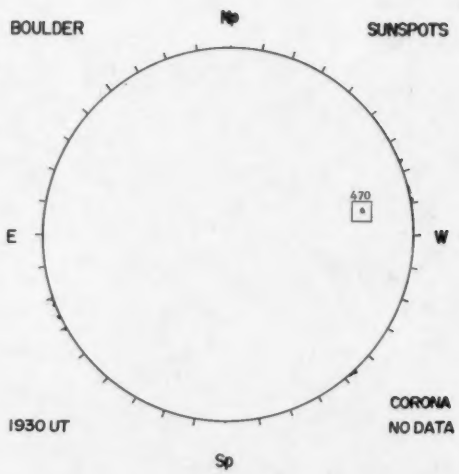


12

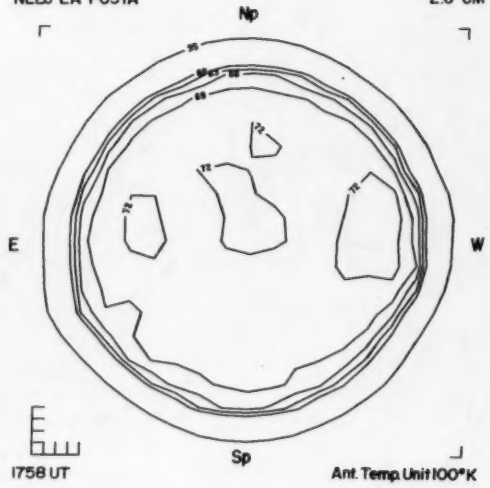
RAMEY AFB




BOULDER




NELC LA POSTA




NELC LA POSTA

# FEBRUARY 13, 1975 (P=-16.55, $B_o$=-6.73, $L_o$=79.98)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

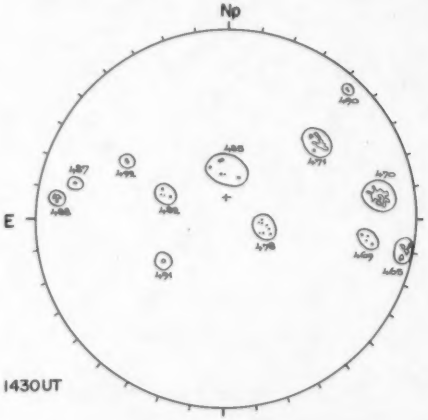
E W

Sp

Intensities in Units
of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

McMATH-HULBERT

CALCIUM REPORT

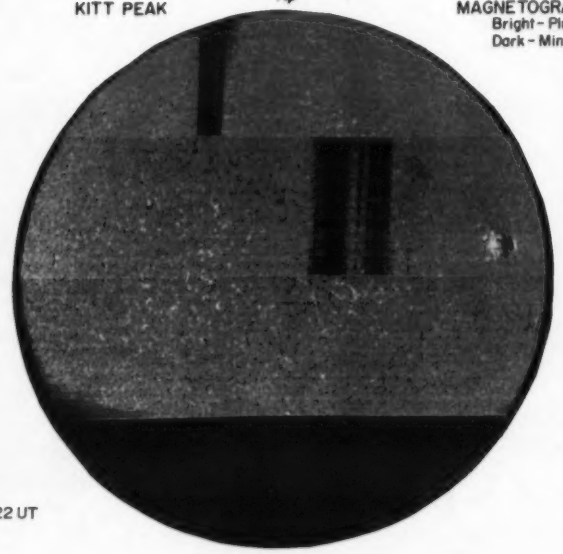



FAIR | S
70 - 1200 - 2.5

1430UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus




1622 UT

MT. WILSON

DELTAY=
DELTAX=

MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

13

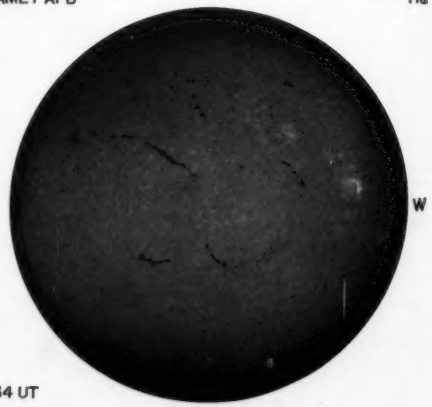
RAMEY AFB

Np

Hα

E

W



1134 UT

Sp

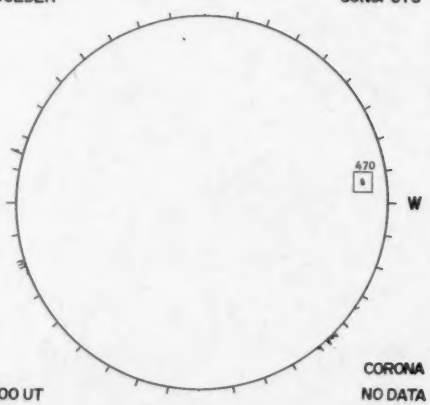
BOULDER

Np

SUNSPOTS

E

W




CORONA

NO DATA

1800 UT

Sp

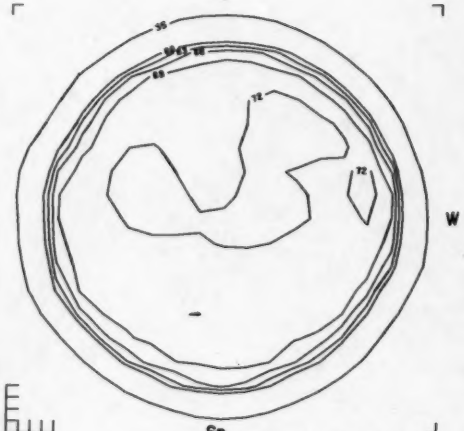
NELC LA POSTA

2.0 CM

Np

E

W




Sp

1740 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Np

E

W

Sp

Ant. Temp. Unit 100°K

# FEBRUARY 14, 1975 (P=-16.90, $B_o$=-6.78, $L_o$=66.82)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

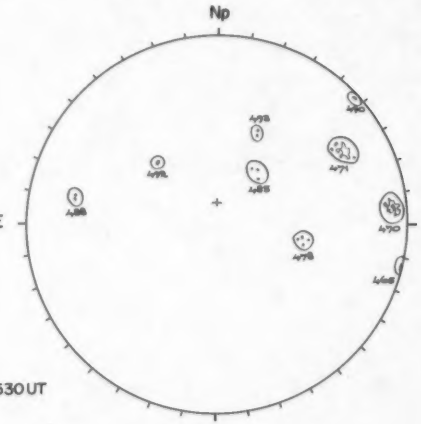
E W

Intensities in Units
of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

Sp

McMATH-HULBERT

CALCIUM REPORT

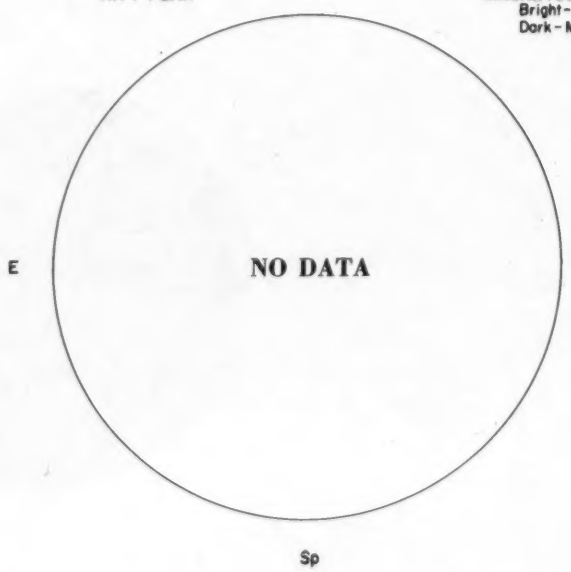



FAIR | M

1530 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

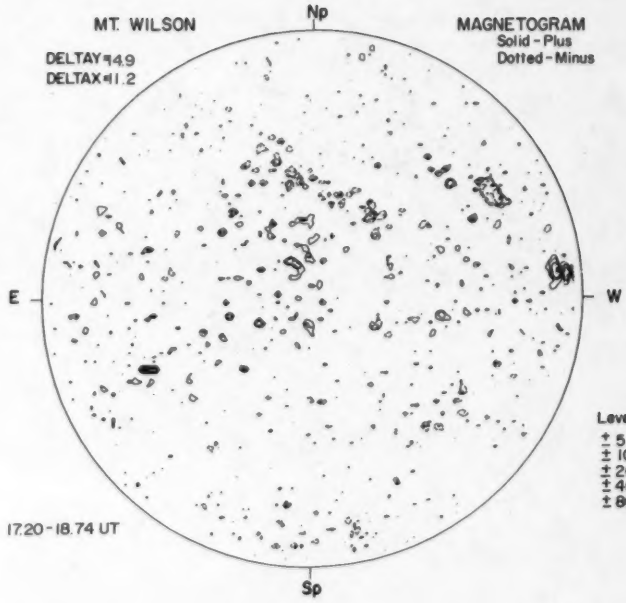



NO DATA

MT. WILSON

DELTAY=14.9
DELTAX=11.2

MAGNETOGRAM
Solid - Plus
Dotted - Minus

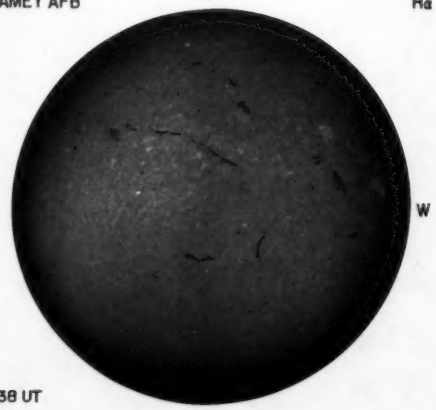



Levels
± 5
± 10
± 20
± 40
± 80

17.20 - 18.74 UT

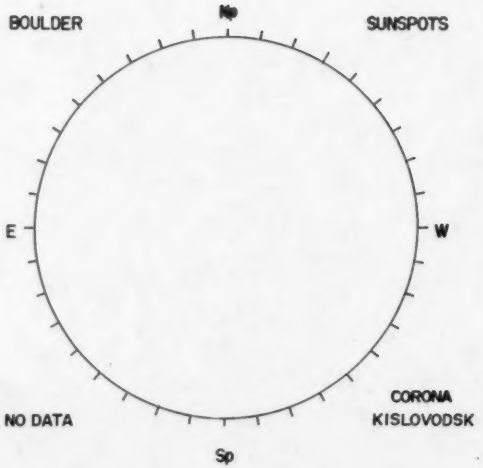
14

RAMEY AFB



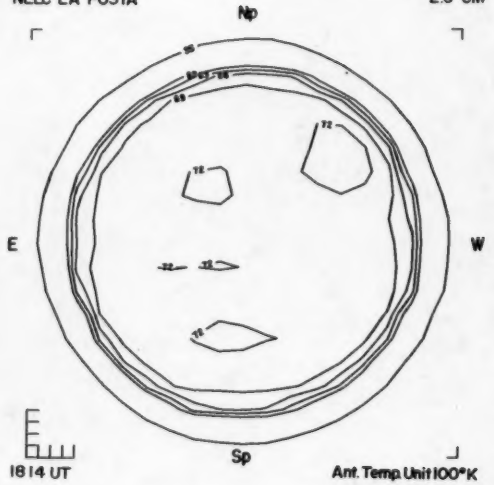

1238 UT

BOULDER




NELC LA POSTA

2.0 CM




1814 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Ant. Temp. Unit 100°K

# FEBRUARY 15, 1975 (P=-17.24, $B_o$=-6.82, $L_o$=53.65)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT

Np

E W

Sp

Intensities in Units
of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

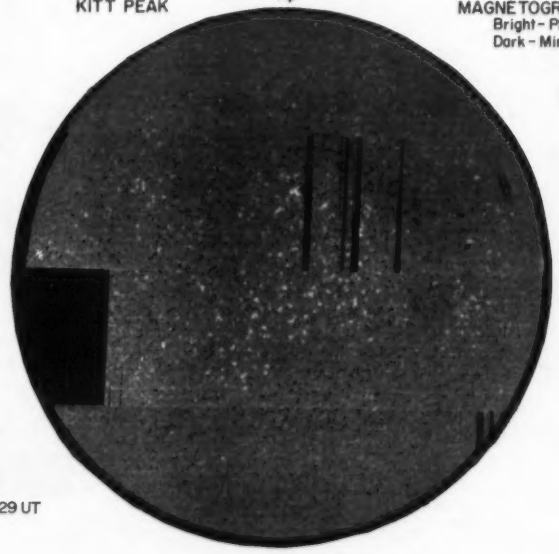
Np

E NO DATA W

Sp

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

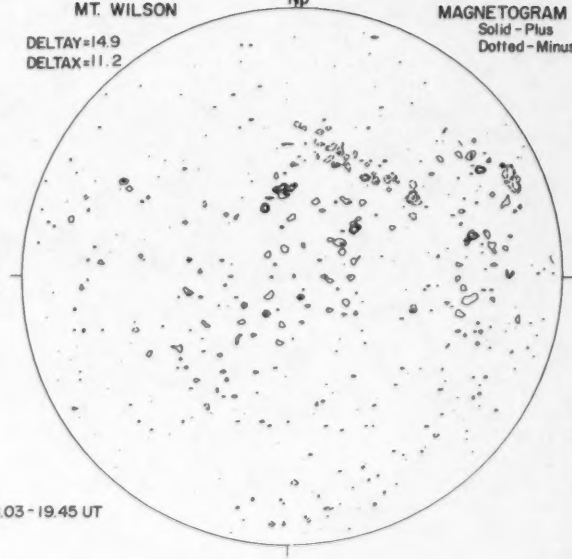


2329 UT

MT. WILSON

DELTAY=14.9
DELTAX=11.2

MAGNETOGRAM
Solid - Plus
Dotted - Minus

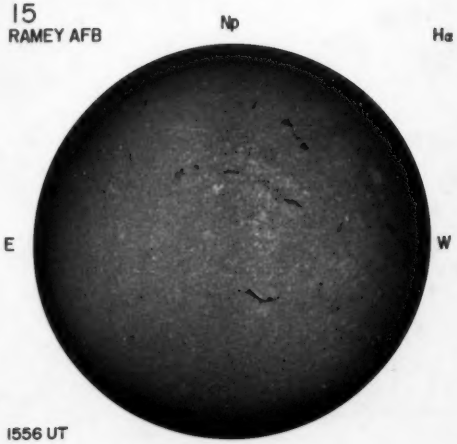


Levels
± 5
± 10
± 20
± 40
± 80

18.03 - 19.45 UT

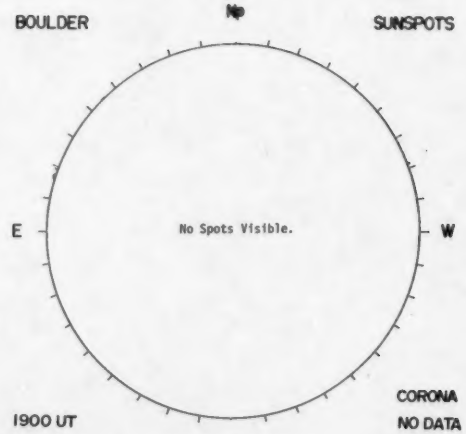
15

RAMEY AFB




1556 UT

BOULDER

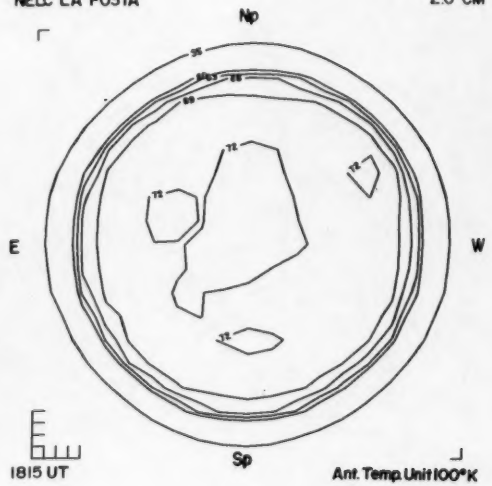



1900 UT

CORONA
NO DATA

NELC LA POSTA

2.0 CM




1815 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Ant. Temp. Unit 100°K

# FEBRUARY 16, 1975 (P = -17.58, $B_o$ = -6.86, $L_o$ = 40.48)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT

Np

E W

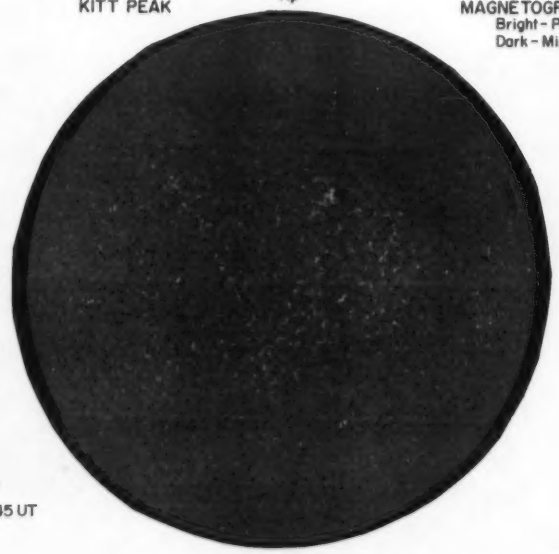
NO DATA

Sp

Intensities in Units
of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

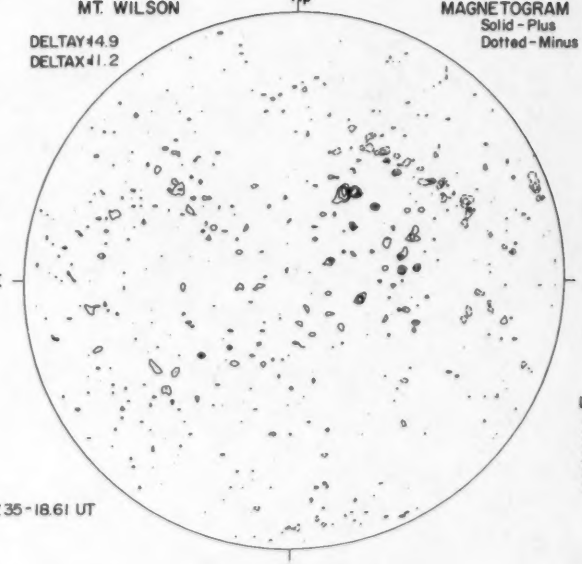


1545 UT

MT. WILSON

DELTAY 4.9
DELTAX 1.2

MAGNETOGRAM
Solid - Plus
Dotted - Minus

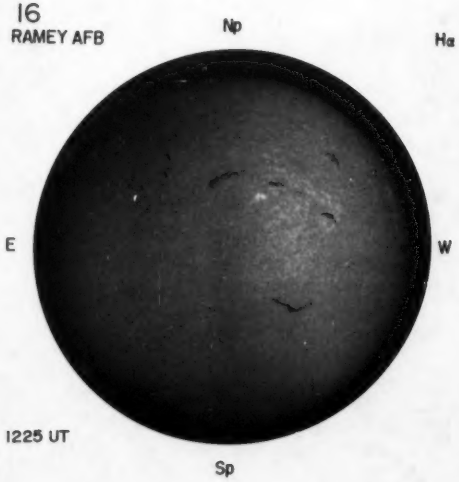


Levels
± 5
± 10
± 20
± 40
± 80

17.35 - 18.61 UT

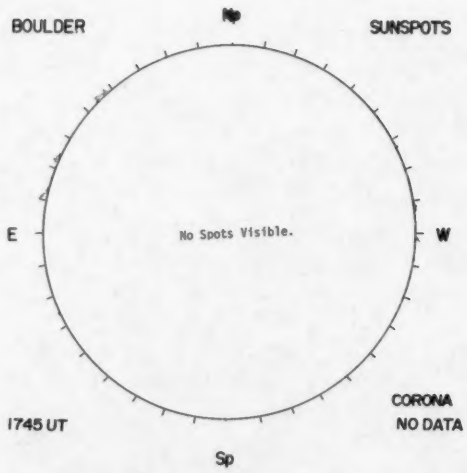
16

RAMEY AFB




BOULDER

SUNSPOTS

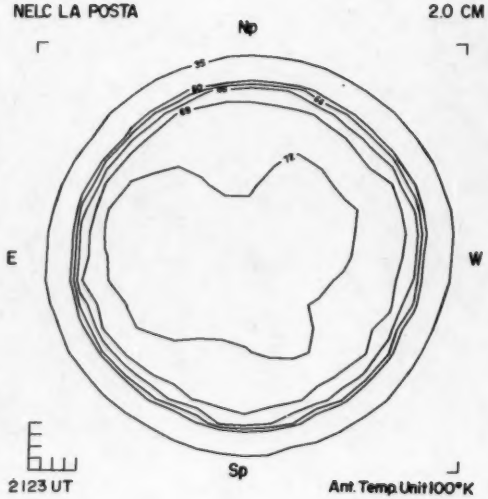



CORONA

NO DATA

NELC LA POSTA

2.0 CM




NELC LA POSTA

8.6 MM

# FEBRUARY 17. 1975 (P=-17.91, $B_o$=-6.90, $L_o$=27.31)

UNIV. COLLEGE LONDON
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X-RAY
OSO-5

Np

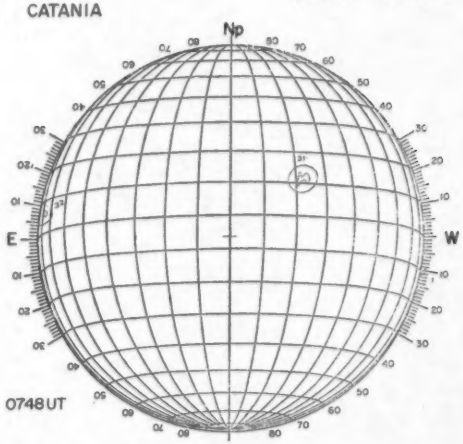
E W

Sp

Intensities in Units
of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

CATANIA

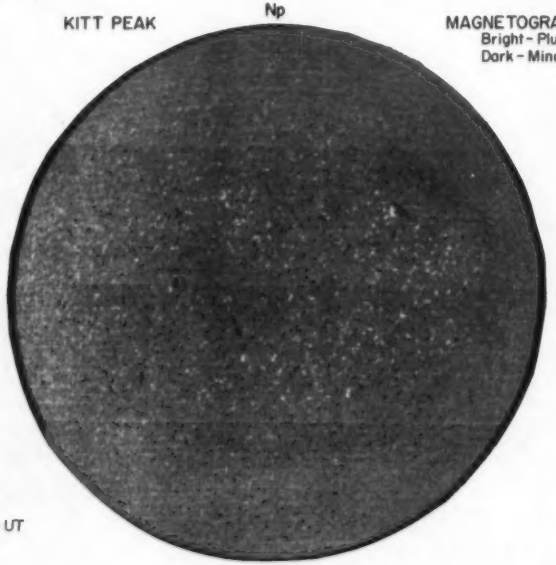
CALCIUM REPORT




0748 UT

POOR | GD

KITT PEAK

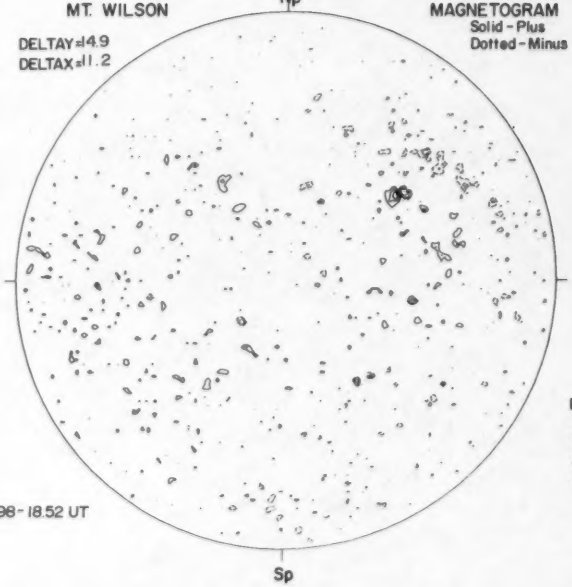



MAGNETOGRAM
Bright - Plus
Dark - Minus

1749 UT

MT. WILSON

DELTAY=14.9
DELTAX=11.2



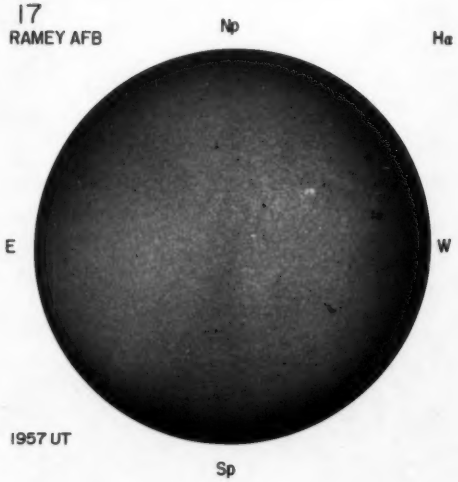

MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
±5
±10
±20
±40
±80

16.98 - 18.52 UT

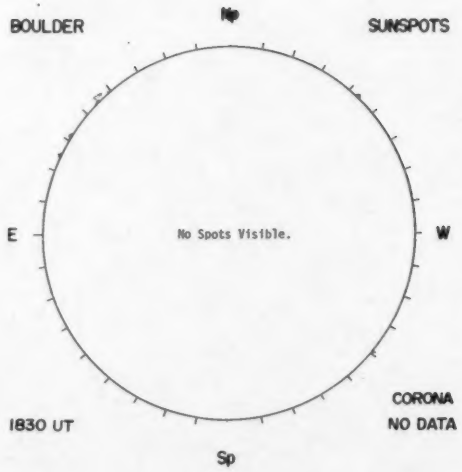
17

RAMEY AFB




1957 UT

BOULDER

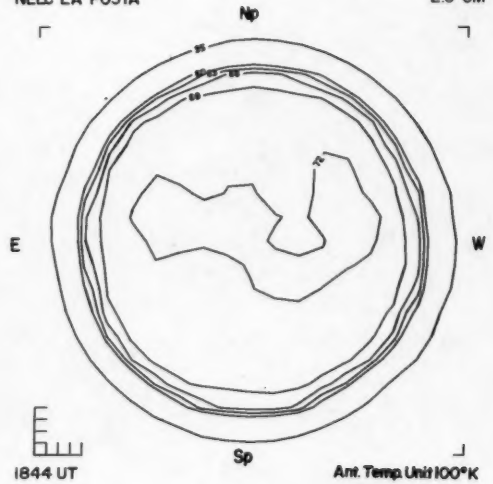



1830 UT

CORONA
NO DATA

NELC LA POSTA

2.0 CM




1844 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Ant. Temp. Unit 100°K

# FEBRUARY 18, 1975 (P=-18.23, $B_o$=-6.94, $L_o$=14.14)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT

Np

E W

Np

E

NO DATA

W

Sp

Intensities in Units
of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

Sp

KITT PEAK

Np

MAGNETOGRAM
Bright - Plus
Dark - Minus

E W

1553 UT

Sp

MT. WILSON

Np

DELTAY=12.7
DELTAX= 9.4

MAGNETOGRAM
Solid - Plus
Dotted - Minus

E W

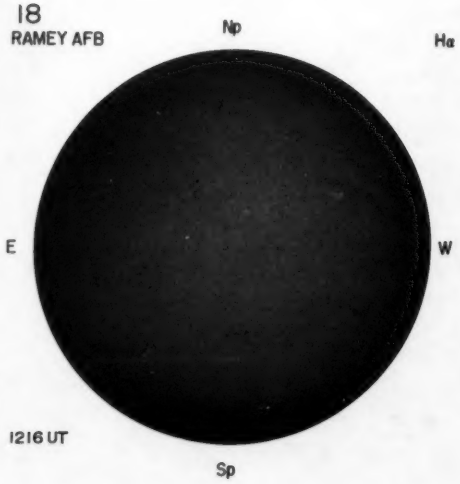
Levels
±5
±10
±20
±40
±80

19.11 - 20.55 UT

Sp

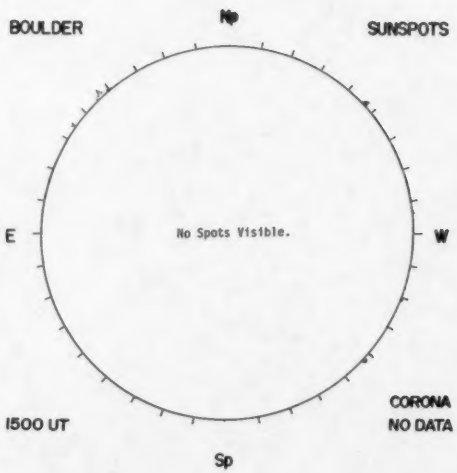
18

RAMEY AFB




1216 UT

BOULDER

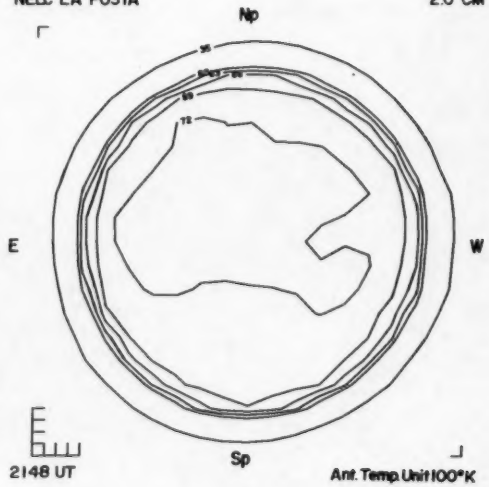



1500 UT

CORONA
NO DATA

NELC LA POSTA

2.0 CM




2148 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Ant. Temp. Unit 100°K

# FEBRUARY 19, 1975 (P = - 18.55, $B_o$ = -6.98, $L_o$ = 0.98)

UNIV. COLLEGE LONDON
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X-RAY
OSO-5

Np

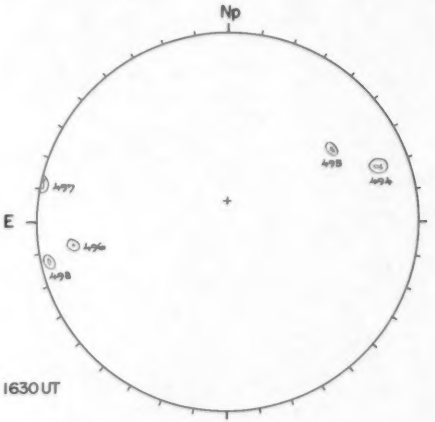
E W

Intensities in Units
of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

Sp

McMATH-HULBERT

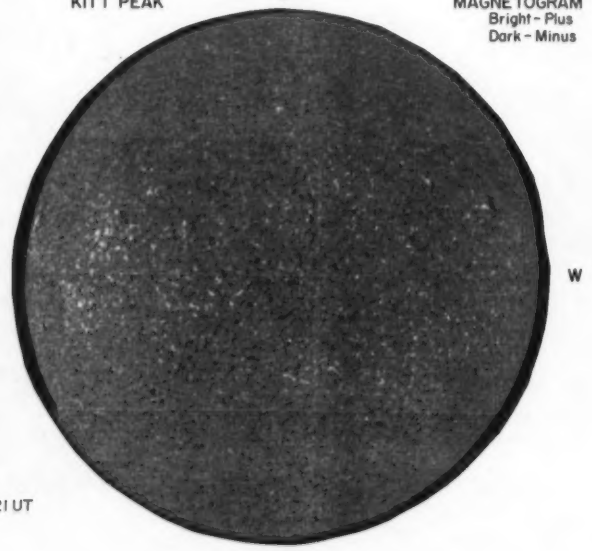
CALCIUM REPORT




FAIR M

1630 UT

KITT PEAK

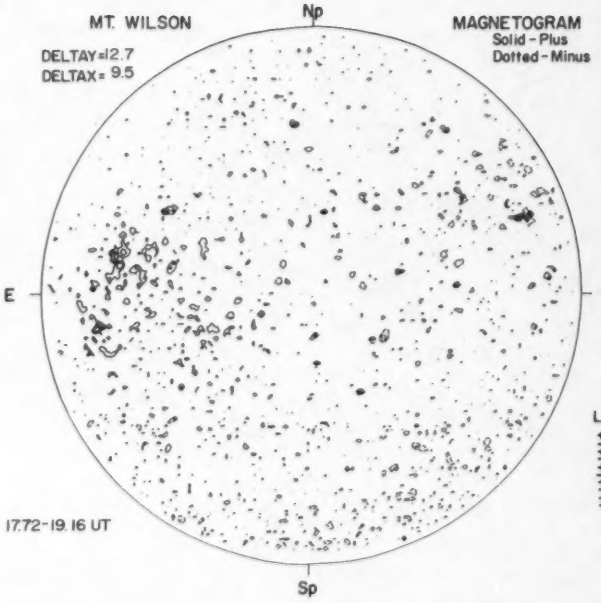



MAGNETOGRAM
Bright - Plus
Dark - Minus

1821 UT

MT. WILSON

DELTAY = 12.7
DELTAX = 9.5

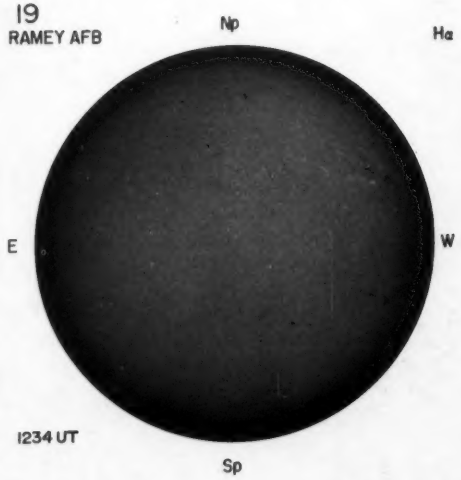



MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

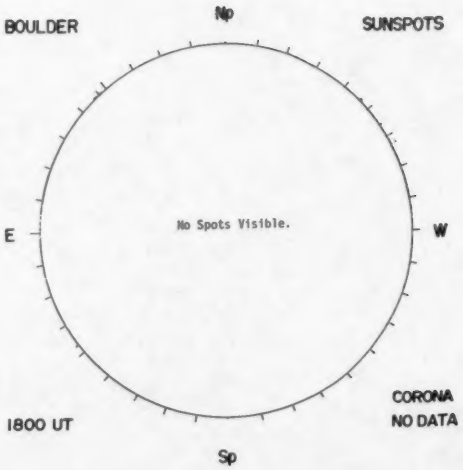
17.72 - 19.16 UT

19
RAMEY AFB




1234 UT

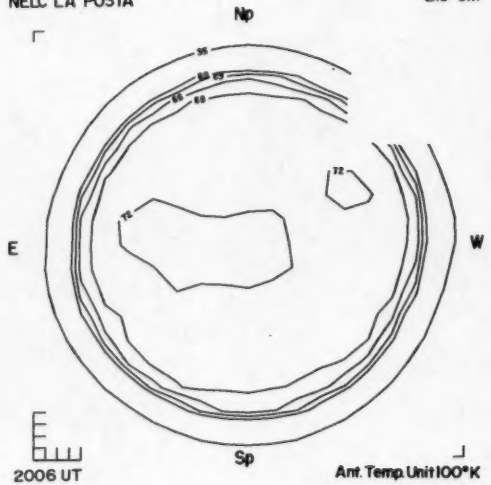
BOULDER




1800 UT

CORONA
NO DATA

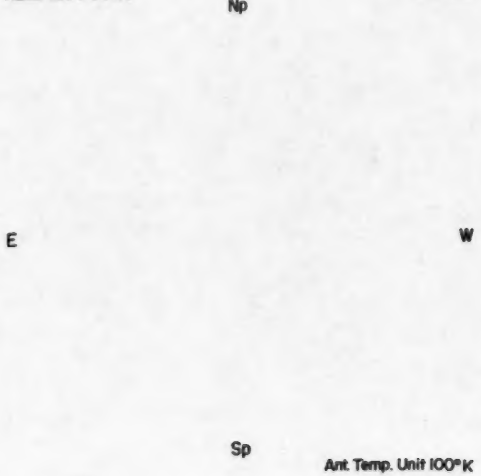
NELC LA POSTA 2.0 CM




2006 UT

Ant. Temp. Unit 100°K

NELC LA POSTA 8.6 MM

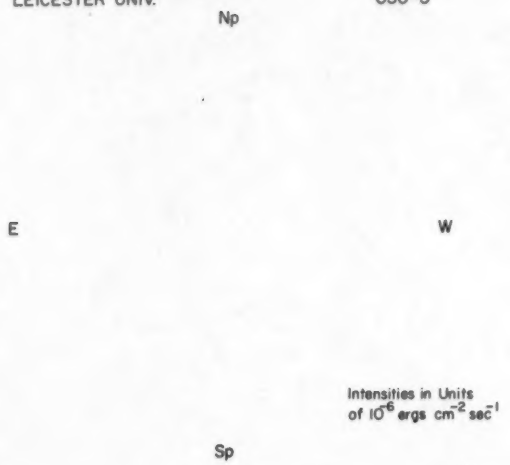



Ant. Temp. Unit 100°K

# FEBRUARY 20, 1975 (P=-18.87, $B_o$=-7.01, $L_o$=347.81)

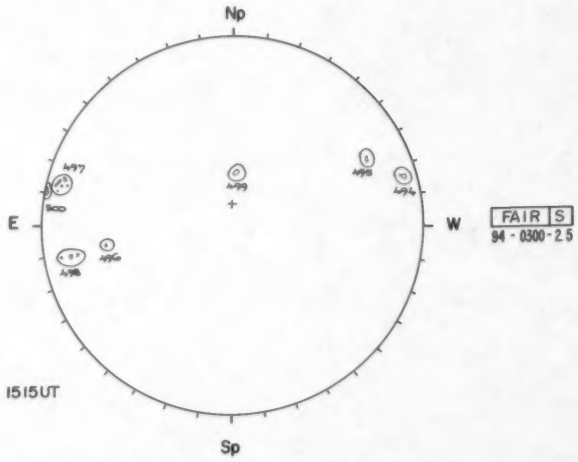
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5




Intensities in Units
of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

McMATH-HULBERT

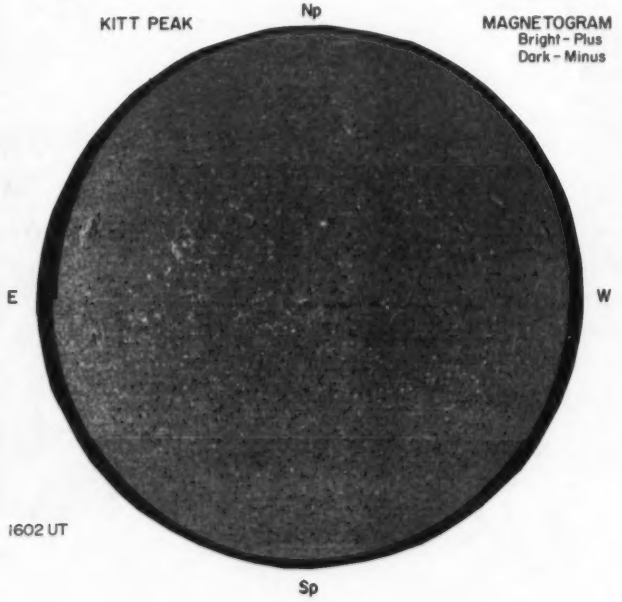



1515UT

CALCIUM REPORT

FAIR | S
94 - 0300 - 2.5

KITT PEAK

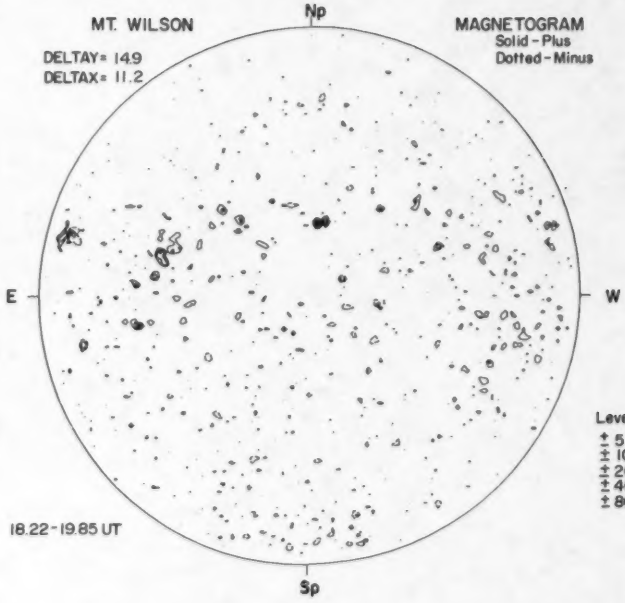



MAGNETOGRAM
Bright - Plus
Dark - Minus

1602 UT

MT. WILSON

DELTAY= 14.9
DELTAX= 11.2



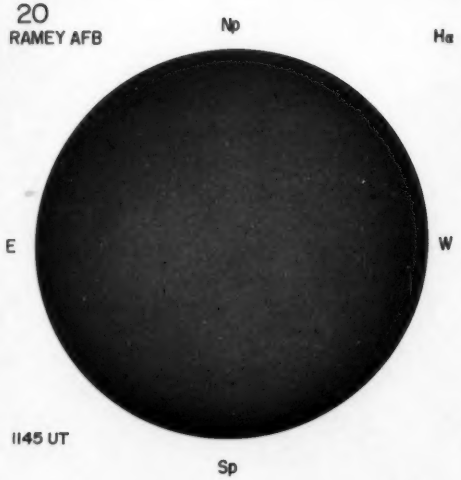

MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

18.22 - 19.85 UT

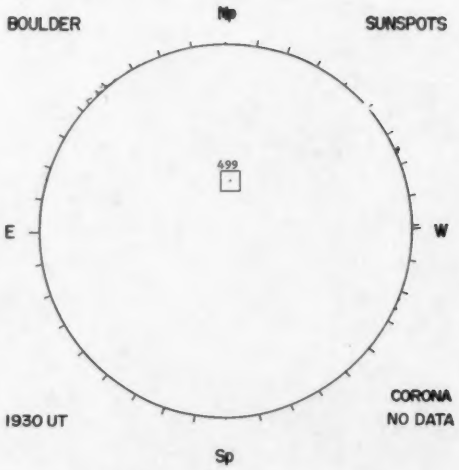
20

RAMEY AFB




1145 UT

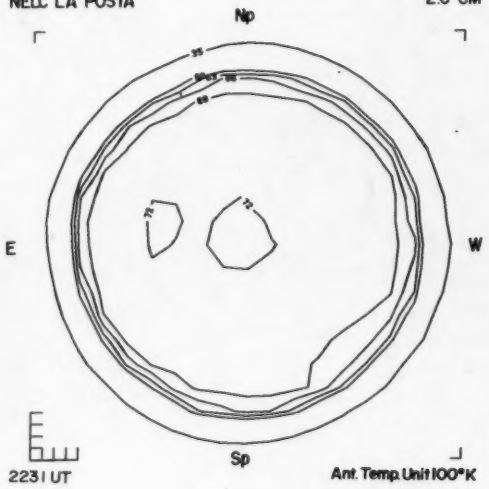
BOULDER




1930 UT

CORONA
NO DATA

NELC LA POSTA




2231 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

Ant. Temp. Unit 100°K

65
Feb 75

# FEBRUARY 21, 1975 (P=-19.18, $B_o$=-7.04, $L_o$=334.64)

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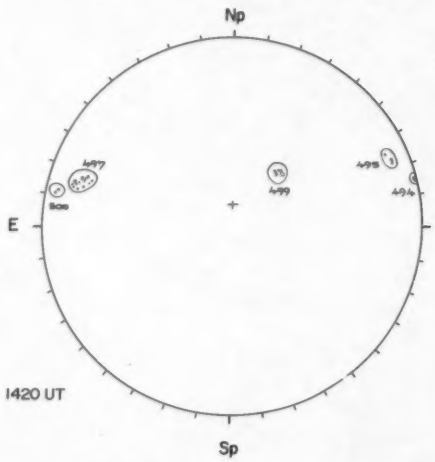
LEICESTER UNIV.

X-RAY
OSO-5

Intensities in Units of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

McMATH-HULBERT

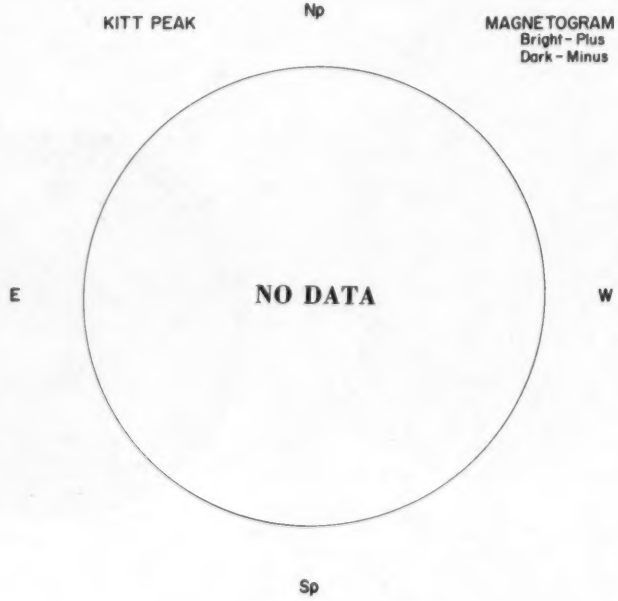



1420 UT

CALCIUM REPORT

GOOD | M

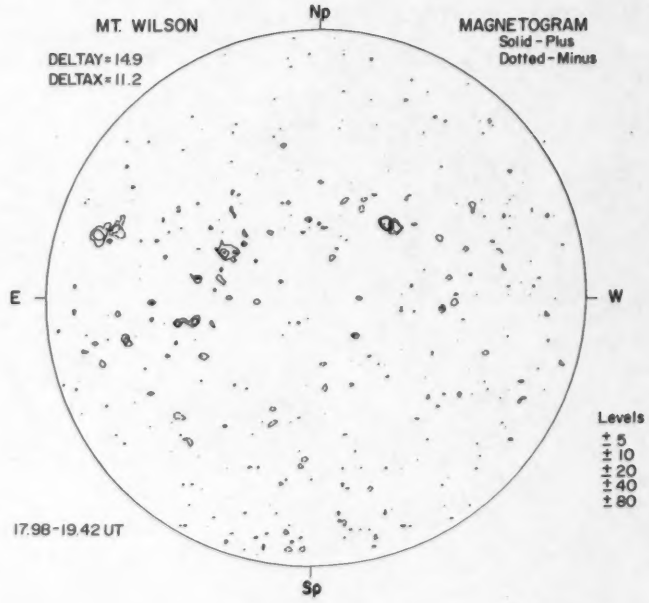
KITT PEAK




MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

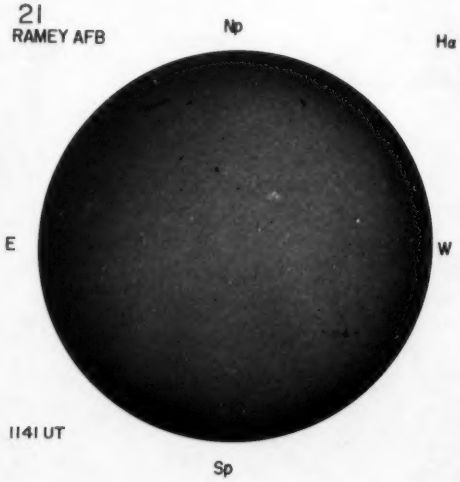
DELTAY = 14.9
DELTAX = 11.2




MAGNETOGRAM
Solid - Plus
Dotted - Minus

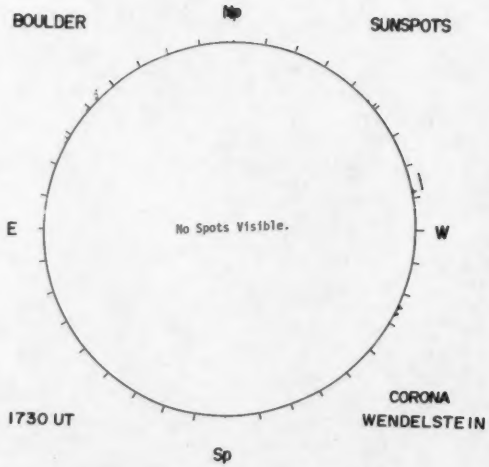
17.98-19.42 UT

21
RAMEY AFB




1141 UT

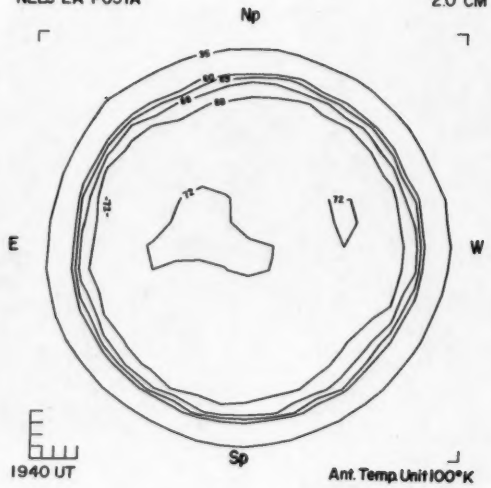
BOULDER




1730 UT

CORONA
WENDELSTEIN

NELC LA POSTA




1940 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

Ant. Temp. Unit 100°K

67
Feb 75

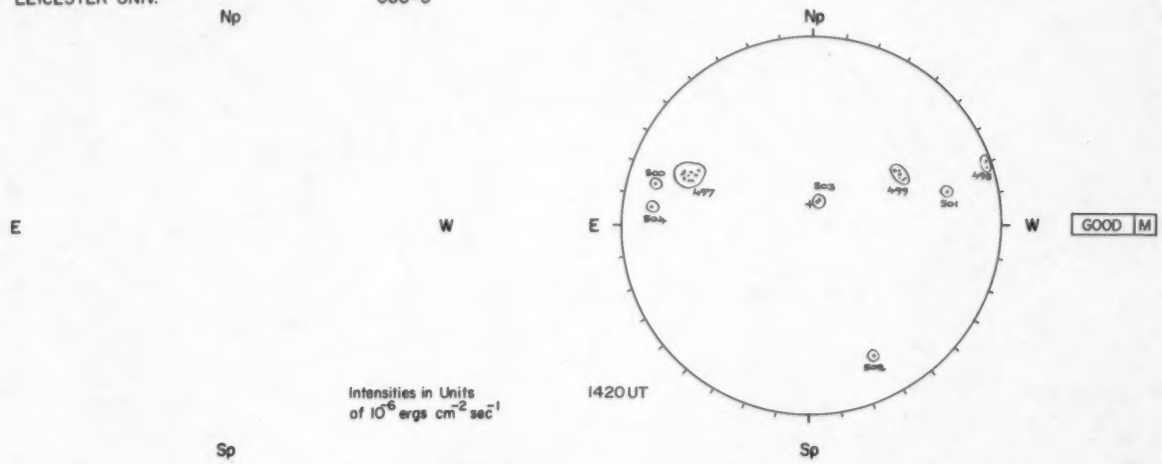
# FEBRUARY 22, 1975 (P = -19.48, $B_o$ = -7.07, $L_o$ = 321.47)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

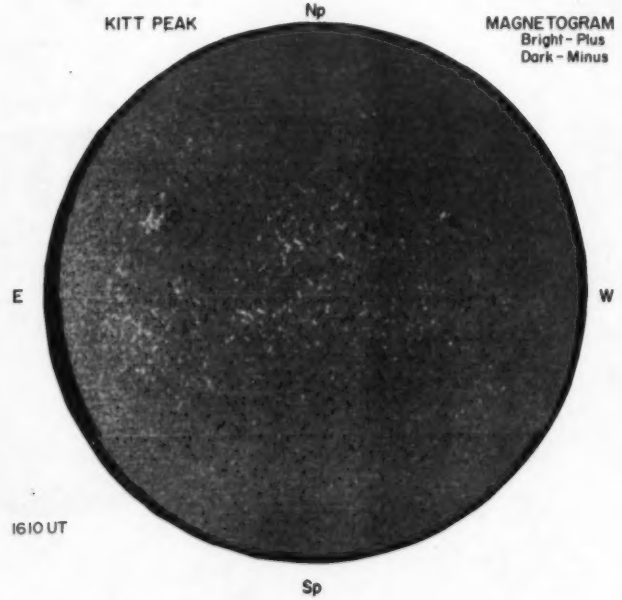
CALCIUM REPORT




Intensities in Units
of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

1420 UT

KITT PEAK

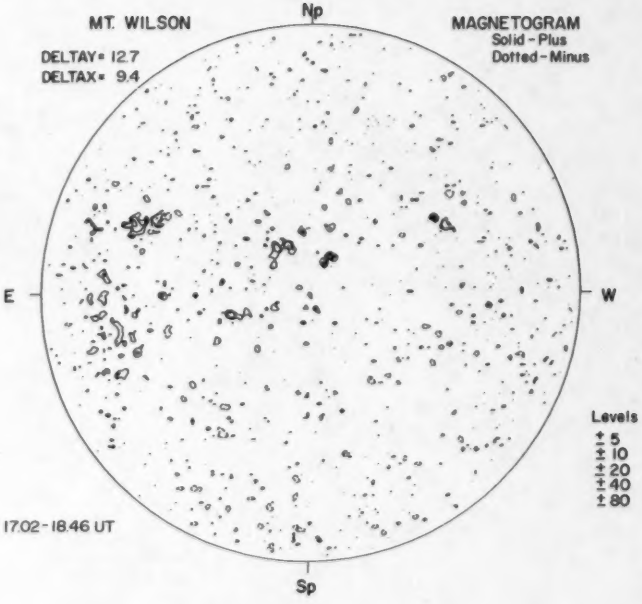



MAGNETOGRAM
Bright - Plus
Dark - Minus

1610 UT

MT. WILSON

DELTAY = 12.7
DELTAX = 9.4




MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

17.02 - 18.46 UT

22

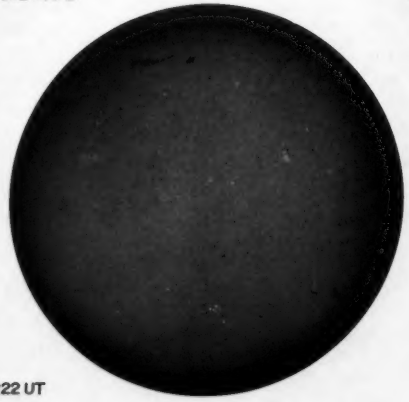
RAMEY AFB

Np

Hα

E

W



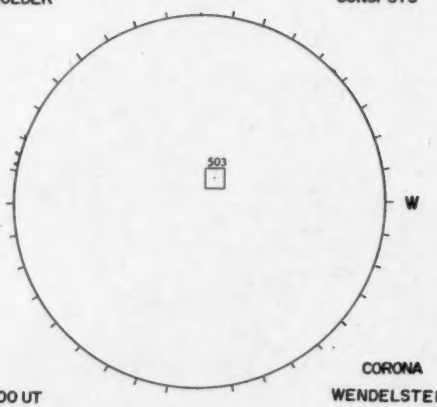
1222 UT

Sp

BOULDER

Np

SUNSPOTS




CORONA

WENDELSTEIN

1800 UT

Sp

NELC LA POSTA

Np

2.0 CM

NO DATA

E

EQUIPMENT

W

NO DATA

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

W

Sp

Ant. Temp. Unit 100°K

# FEBRUARY 23, 1975 (P = - 19.77, $B_o$ = - 7.10, $L_o$ = 308.30)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

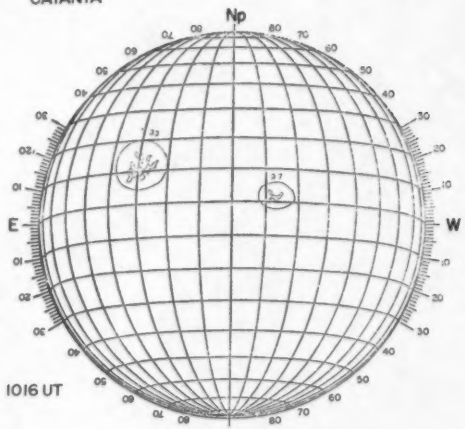
Np

E W

Intensities in Units of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

CALCIUM REPORT

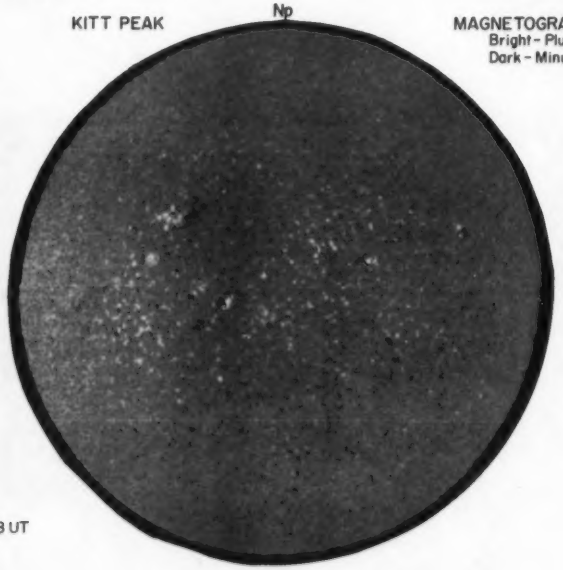
CATANIA




POOR | SS
33 - 1230 ---

1016 UT

KITT PEAK

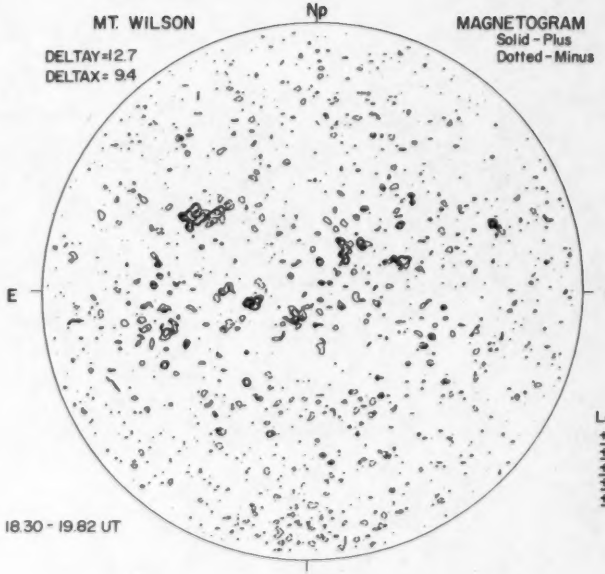



MAGNETOGRAM
Bright - Plus
Dark - Minus

1828 UT

MT. WILSON

DELTAY = 12.7
DELTAX = 9.4




MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

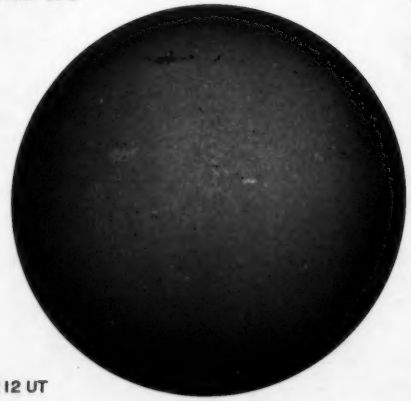
18.30 - 19.82 UT

23

RAMEY AFB

Np

Hα



E

W

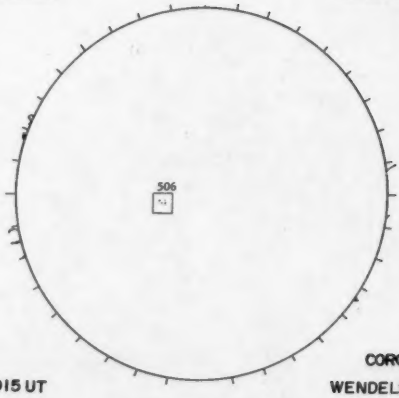
1212 UT

Sp

BOULDER

Np

SUNSPOTS




E

W

2015 UT

CORONA

WENDELSTEIN

Sp

NELC LA POSTA

Np

2.0 CM

NO DATA

E

CALIBRATION

W

Sp

2055 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

W

Sp

Ant. Temp. Unit 100°K

71

Feb 75

# FEBRUARY 24, 1975 (P = -20.06, $B_o$ = -7.12, $L_o$ = 295.13)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

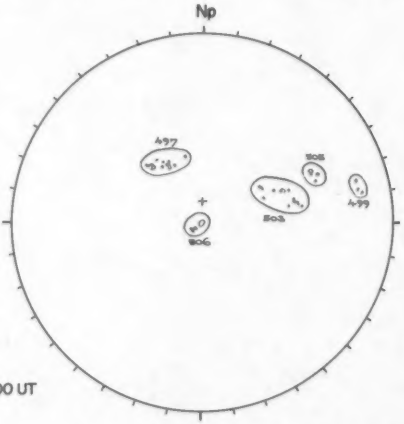
E W

Intensities in Units
of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

Sp

McMATH-HULBERT

CALCIUM REPORT

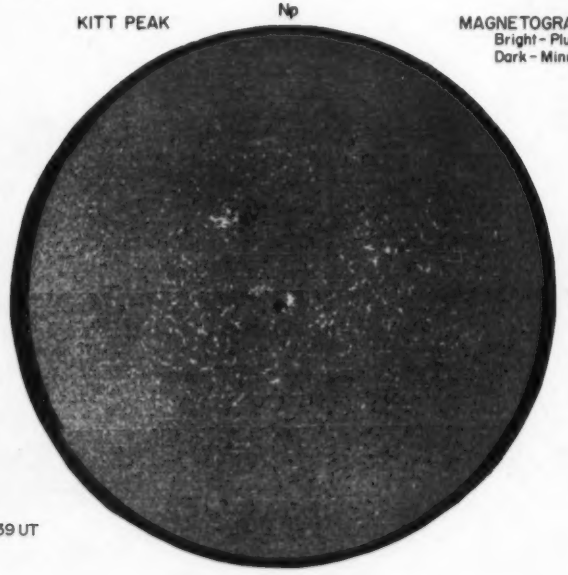



GOOD | S
06 - 0200 - 2.5

1500 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

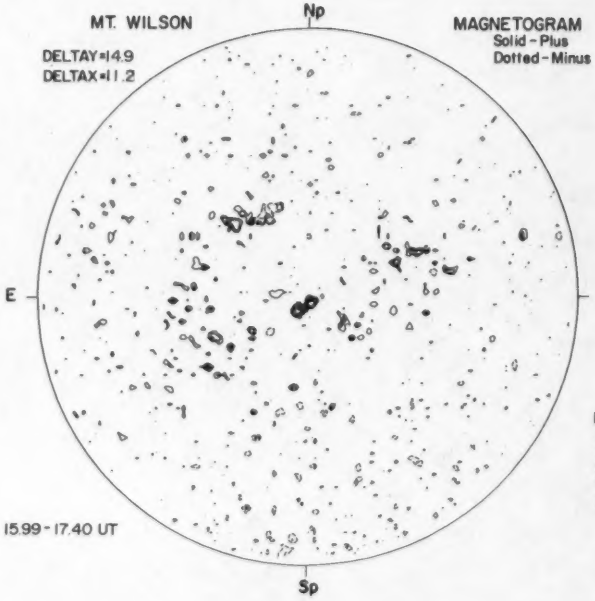



1539 UT

MT. WILSON

DELTAY = 14.9
DELTAX = 11.2

MAGNETOGRAM
Solid - Plus
Dotted - Minus

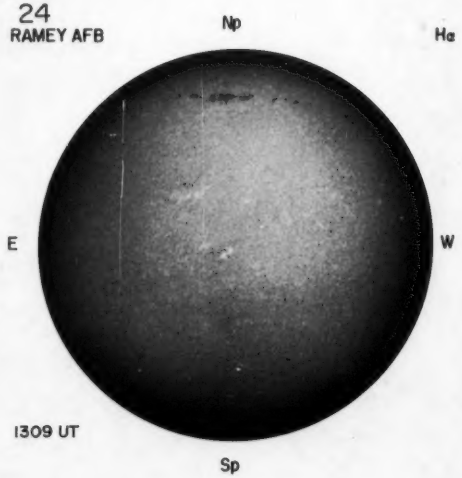



Levels
± 5
± 10
± 20
± 40
± 80

15.99 - 17.40 UT

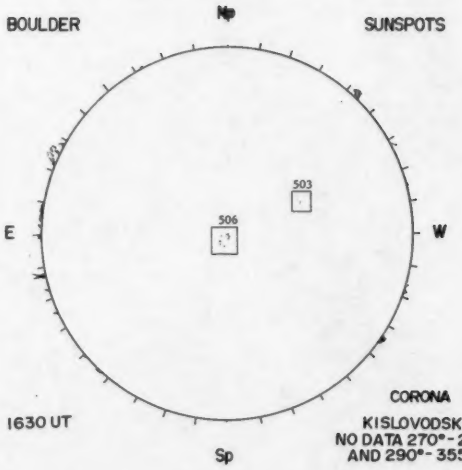
24

RAMEY AFB




1309 UT

BOULDER



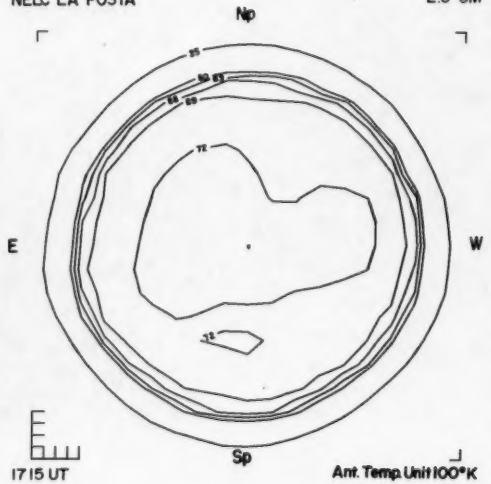

1630 UT

CORONA

KISLOVODSK
NO DATA 270°-275°
AND 290°-355°

NELC LA POSTA

2.0 CM




1715 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Ant. Temp. Unit 100°K

# FEBRUARY 25, 1975 (P=-20.35, $B_o$=-7.15, $L_o$=281.96)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

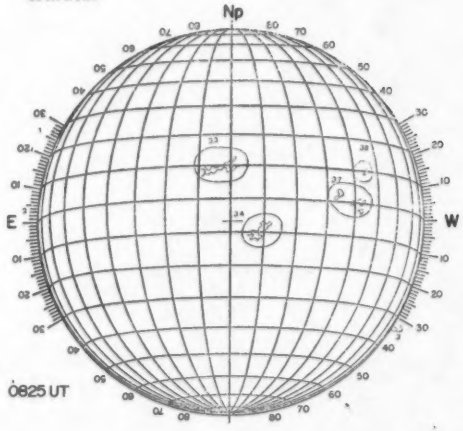
E W

Intensities in Units
of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

Sp

CATANIA

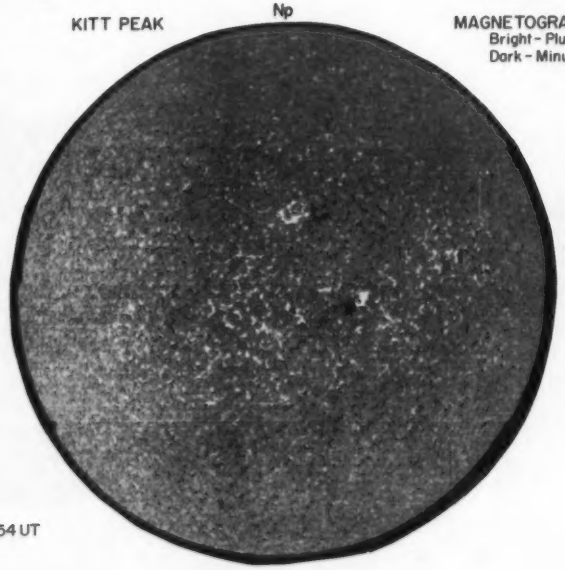
CALCIUM REPORT




| GOOD | EC |
|---|---|
| 34 - 0630 | --- |
| 33 - 0708 | --- |

0825 UT

KITT PEAK

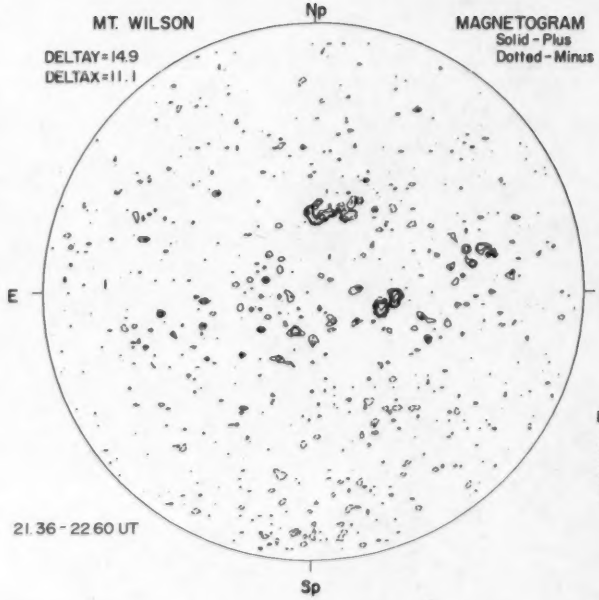



MAGNETOGRAM
Bright - Plus
Dark - Minus

1954 UT

MT. WILSON

DELTAY=14.9
DELTAX=11.1



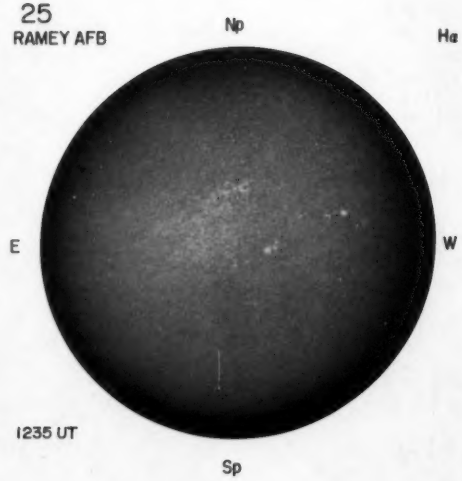

MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
±5
±10
±20
±40
±80

21.36 - 22.60 UT

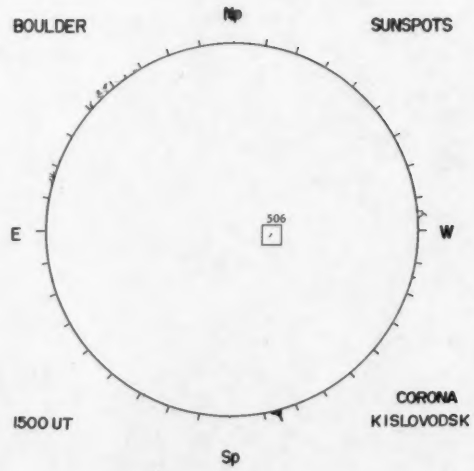
25

RAMEY AFB




1235 UT

BOULDER



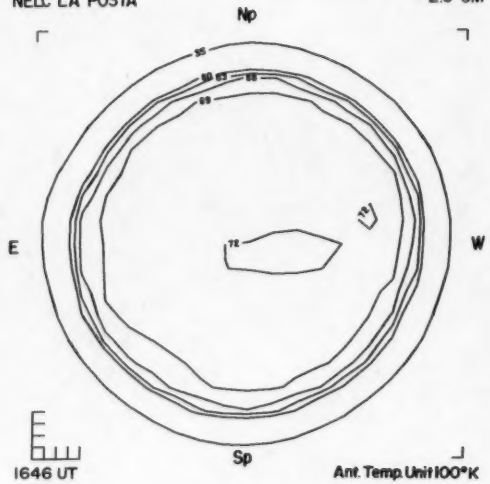

1500 UT

CORONA

KISLOVODSK

NELC LA POSTA

2.0 CM




1646 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Ant. Temp. Unit 100°K

75
Feb 75

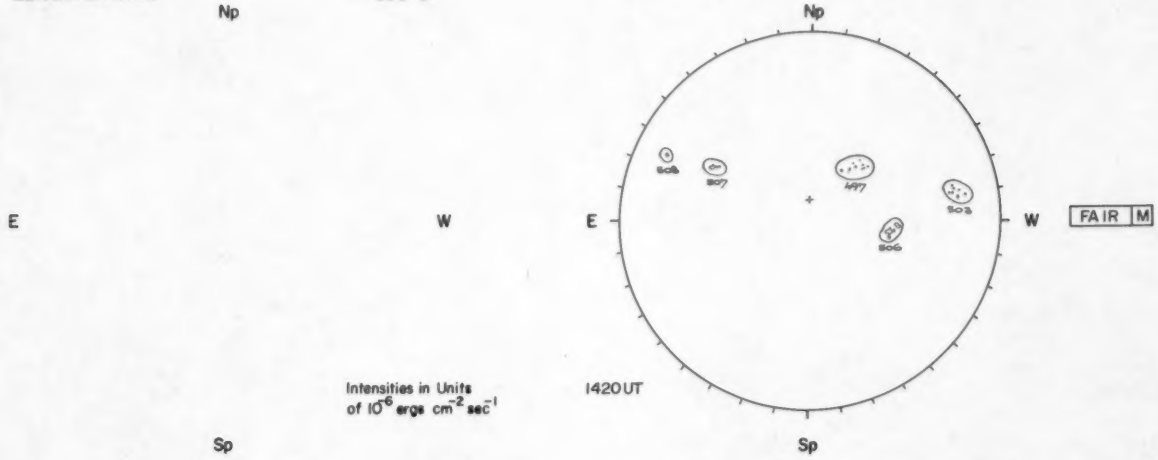
# FEBRUARY 26, 1975 (P=-20.63, $B_o$=-7.17, $L_o$=268.78)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

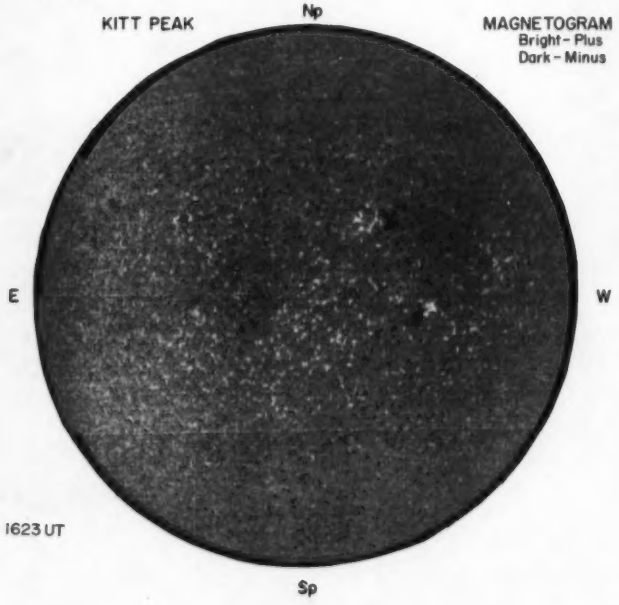
X-RAY
OSO-5

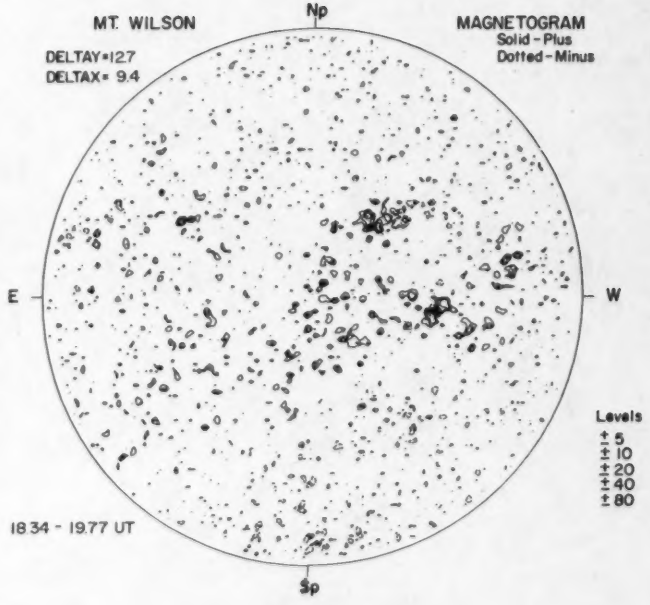
McMATH-HULBERT

CALCIUM REPORT

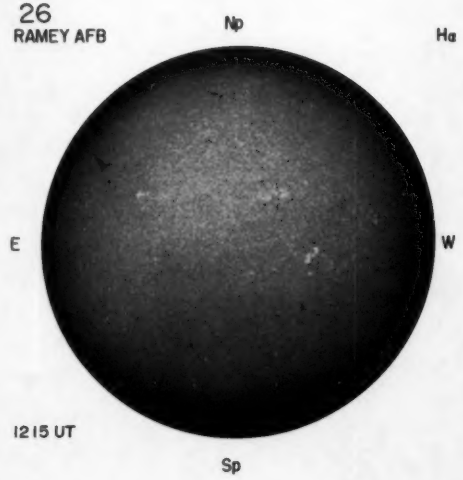



Intensities in Units of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$



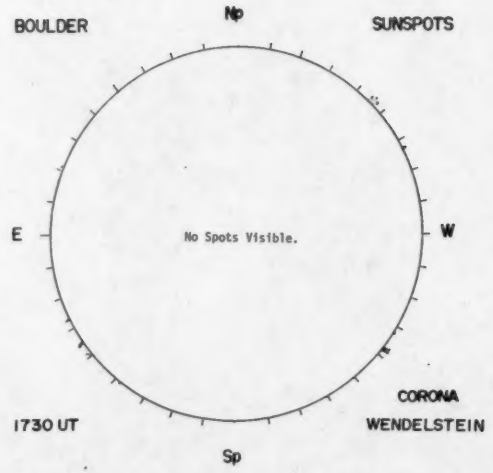



26
RAMEY AFB




1215 UT

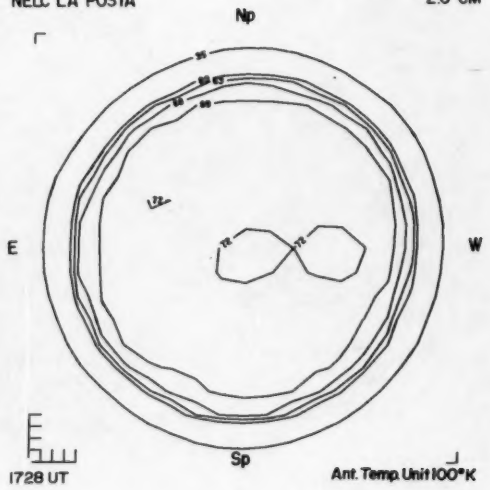
BOULDER




1730 UT

CORONA
WENDELSTEIN

NELC LA POSTA 2.0 CM




1728 UT

Ant. Temp. Unit 100°K

NELC LA POSTA 8.6 MM

Ant. Temp. Unit 100°K

77
Feb 75

# FEBRUARY 27, 1975 (P=-20.90, $B_o$=-7.19, $L_o$=255.61)

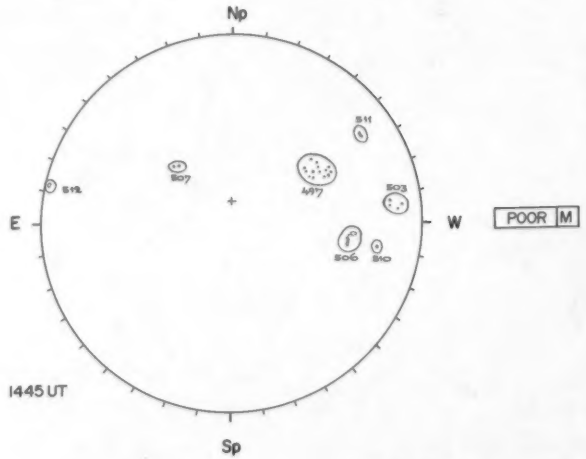
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT

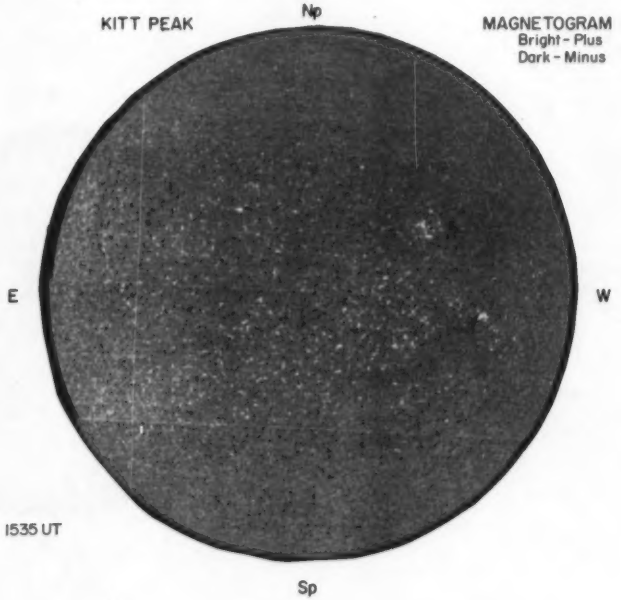
Intensities in Units of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$




1445 UT

POOR | M

KITT PEAK




MAGNETOGRAM
Bright - Plus
Dark - Minus

1535 UT

MT. WILSON

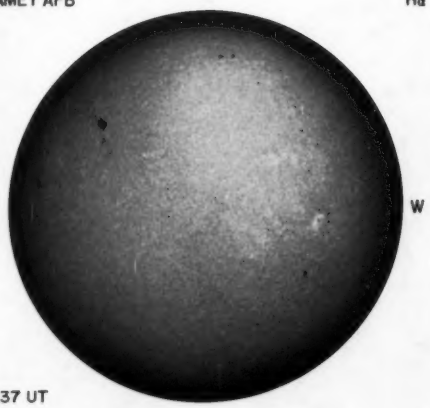
DELTAY=
DELTAX=

NO DATA

MAGNETOGRAM
Solid - Plus
Dotted - Minus

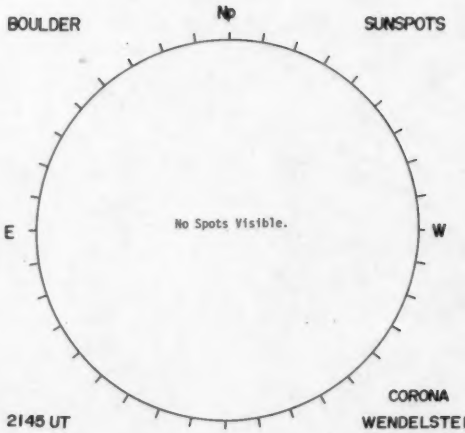
Levels
± 5
± 10
± 20
± 40
± 80

27
RAMEY AFB




1237 UT

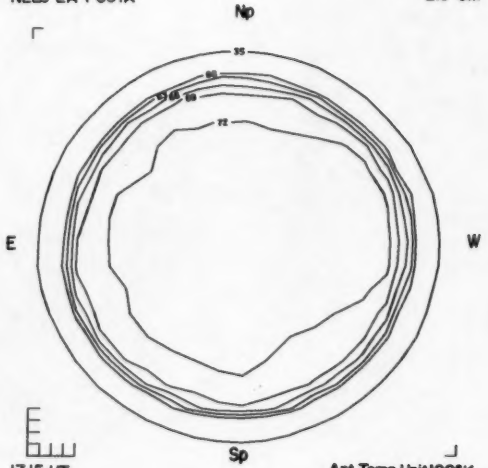
BOULDER




2145 UT

CORONA
WENDELSTEIN

NELC LA POSTA 2.0 CM




1715 UT

Ant. Temp. Unit 100°K

NELC LA POSTA 8.6 MM

Ant. Temp. Unit 100°K

79
Feb 75

# FEBRUARY 28, 1975 (P=-21.16, $B_o$=-7.20, $L_o$=242.44)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

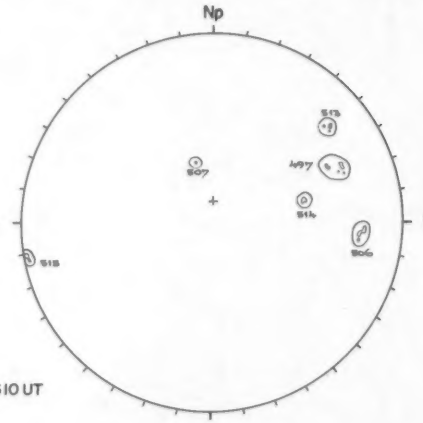
E W

Intensities in Units of $10^{-6}$ ergs $cm^{-2}$ $sec^{-1}$

Sp

McMATH-HULBERT

CALCIUM REPORT

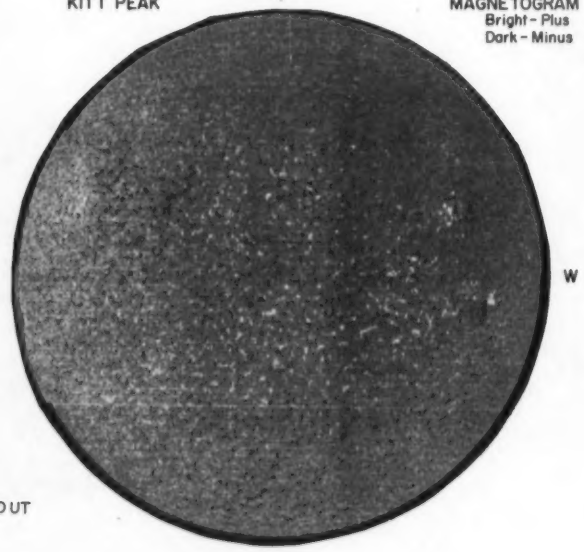



FAIR D

1610 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

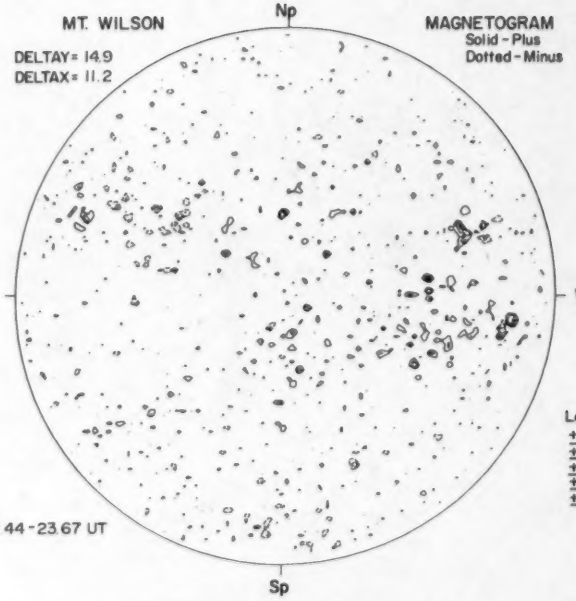



1620 UT

MT. WILSON

DELTAY= 14.9
DELTAX= 11.2

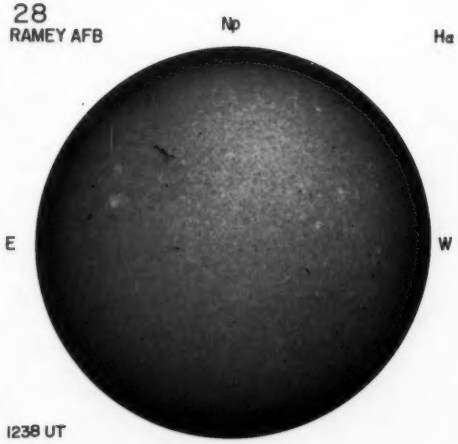
MAGNETOGRAM
Solid - Plus
Dotted - Minus




Levels
±5
±10
±20
±40
±80

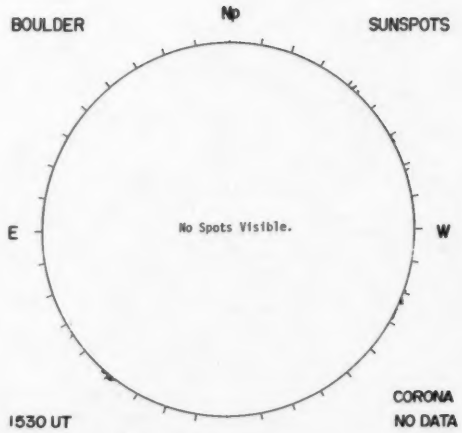
22.44 - 23.67 UT

28
RAMEY AFB




1238 UT

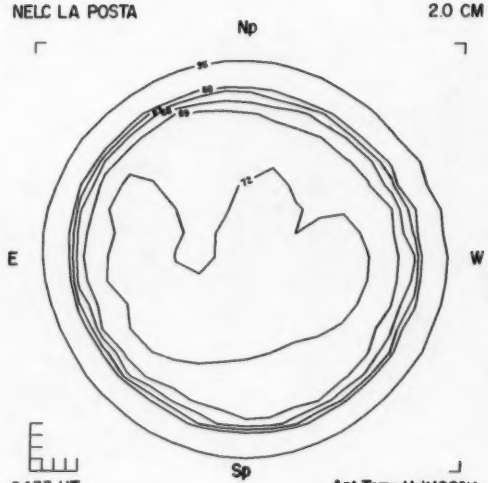
BOULDER




1530 UT

CORONA
NO DATA

NELC LA POSTA




2433 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

Ant. Temp. Unit 100°K

# REGIONS OF SOLAR ACTIVITY

## FEBRUARY 1975

MCMATH REGION 13453 CMP DATE 1.7

| | | | CALCIUM PLAGE DATA | | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 1 | 26 | 13453 | S08 E82 | 224 | 300 | 1.5 | | | | | | | |
| 75 | 1 | 27 | 13453 | S08 E67 | 226 | 300 | 1.5 | | | | | | | |
| 75 | 1 | 28 | 13453 | S09 E53 | 228 | 100 | 1.0 | | | | | | | |

MCMATH REGION 13464 CMP DATE 1.8

| | | | CALCIUM PLAGE DATA | | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 1 | 13464 | S15 E02 | 227 | 100 | 1.0 | | | | | | | |
| 75 | 2 | 2 | 13464 | S14 W10 | 225 | 200 | 1.0 | | | | | | | |

MCMATH REGION 13459 CMP DATE 3.5 RETURN OF REGION 13409 ROTATION 2

| | | | CALCIUM PLAGE DATA | | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 1 | 28 | 13459 | N07 E82 | 199 | 800 | 2.0 | | | | | | | |
| 75 | 1 | 30 | 13459 | N07 E55 | 200 | 800 | 2.0 | | | | | | | |
| 75 | 1 | 31 | 13459 | N07 E42 | 199 | 700 | 2.0 | | N07 E48 | | | H | 0 1 | AXX |
| 75 | 2 | 1 | 13459 | N06 E27 | 202 | 900 | 2.5 | | | | | | | |
| 75 | 2 | 2 | 13459 | N06 E14 | 201 | 700 | 2.5 | | | | | | | |
| 75 | 2 | 3 | 13459 | N06 W02 | 204 | 800 | 2.0 | | | | | | | |
| 75 | 2 | 6 | 13459 | N06 W45 | 206 | 300 | 1.0 | | | | | | | |
| 75 | 2 | 7 | 13459 | N07 W56 | 206 | 300 | 1.0 | | | | | | | |
| 75 | 2 | 8 | 13459 | N07 W72 | 207 | 200 | 1.0 | | | | | | | |

MCMATH REGION 13466 CMP DATE 4.5

| | | | CALCIUM PLAGE DATA | | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 1 | 13466 | S48 E38 | 191 | 100 | 1.0 | | | | | | | |

MCMATH REGION 13463 CMP DATE 5.2 RETURN OF REGION 13411 ROTATION 3

| | | | CALCIUM PLAGE DATA | | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 1 | 30 | 13463 | N15 E73 | 182 | 600 | 1.0 | | | | | | | |
| 75 | 1 | 31 | 13463 | N15 E60 | 181 | 500 | 1.0 | | | | | | | |
| 75 | 2 | 1 | 13463 | N15 E46 | 183 | 800 | 1.5 | | | | | | | |
| 75 | 2 | 2 | 13463 | N14 E36 | 179 | 700 | 1.5 | | | | | | | |
| 75 | 2 | 3 | 13463 | N15 E20 | 182 | 800 | 1.5 | | | | | | | |
| 75 | 2 | 6 | 13463 | N15 W21 | 182 | 700 | 1.0 | | | | | | | |
| 75 | 2 | 7 | 13463 | N15 W32 | 182 | 700 | 1.0 | | | | | | | |
| 75 | 2 | 8 | 13463 | N15 W47 | 182 | 600 | 1.0 | | | | | | | |
| 75 | 2 | 9 | 13463 | N15 W58 | 181 | 800 | 1.0 | | | | | | | |
| 75 | 2 | 10 | 13463 | N14 W72 | 181 | 600 | 1.0 | | | | | | | |
| 75 | 2 | 11 | 13463 | N13 W85 | 182 | 300 | 1.0 | | | | | | | |

MCMATH REGION 13473 CMP DATE 5.3

| | | | CALCIUM PLAGE DATA | | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 8 | 13473 | S02 W45 | 180 | 100 | 1.5 | | | | | | | |
| 75 | 2 | 9 | 13473 | S02 W58 | 181 | 200 | 2.0 | | | | | | | |
| 75 | 2 | 10 | 13473 | S02 W72 | 181 | 200 | 1.5 | | | | | | | |

MCMATH REGION 13484 CMP DATE 7.5

| | | | CALCIUM PLAGE DATA | | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 12 | 13484 | N13 W68 | 151 | 100 | 1.0 | | | | | | | |

# REGIONS OF SOLAR ACTIVITY

## FEBRUARY 1975

MCMATH REGION 13465 CMP DATE 7.7

| | | | CALCIUM PLAGE DATA | | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 1 | 13465 | S10 E87 | 142 | 900 | 2.5 | | | | | | | | | |
| 75 | 2 | 2 | 13465 | S10 E68 | 147 | 1600 | 3.5 | 19545 | S13 E58 | 156 | BF | | B | 30 | 9 | BXO |
| 75 | 2 | | | | | | | | S10 E71 | | | | B | 10 | 4 | BXO |
| 75 | 2 | 3 | 13465 | S10 E56 | 146 | 2000 | 3.5 | | S10 E53 | | | | B | 10 | 2 | AXX |
| 75 | 2 | | | | | | | | S11 E60 | | | | B | 10 | 8 | BXX |
| 75 | 2 | | | | | | | | S13 E47 | | | | B | 40 | 13 | CRI |
| 75 | 2 | 4 | | | | | | | S11 E38 | | | | R | 10 | 3 | AXX |
| 75 | 2 | | | | | | | | S12 E32 | | | | R | 30 | 2 | HSX |
| 75 | 2 | 5 | | | | | | 19545 | S13 E19 | 157 | (BP) | 4 | R | 20 | 1 | HSX |
| 75 | 2 | | | | | | | | S11 E23 | | | | R | 0 | 1 | AXX |
| 75 | 2 | 6 | 13465 | S10 E12 | 149 | 1700 | 2.5 | 19545 | S13 E02 | 156 | BP | | B | 10 | 1 | AXX |
| 75 | 2 | | | | | | | | S10 E09 | | | | B | 10 | 2 | BXO |
| 75 | 2 | 7 | 13465 | S11 E01 | 149 | 1300 | 2.5 | 19545 | S12 W06 | 153 | (AF) | 1 | B | 10 | 1 | AXX |
| 75 | 2 | 8 | 13465 | S11 W13 | 148 | 1200 | 2.5 | 19545 | S13 W23 | 158 | (AP) | 1 | | | | |
| 75 | 2 | | | | | | | 19548 | S10 W13 | 148 | (AP) | 2 | | | | |
| 75 | 2 | | | | | | | 19549 | S08 W12 | 147 | (AP) | 1 | | | | |
| 75 | 2 | 9 | 13465 | S11 W25 | 148 | 1200 | 2.5 | | | | | | | | | |
| 75 | 2 | 10 | 13465 | S11 W40 | 149 | 1300 | 2.5 | | | | | | | | | |
| 75 | 2 | 11 | 13465 | S12 W53 | 150 | 1300 | 2.0 | | | | | | | | | |
| 75 | 2 | 12 | 13465 | S12 W65 | 148 | 1300 | 2.0 | 19549 | S08 W70 | 149 | A | | | | | |
| 75 | 2 | 13 | 13465 | S12 W77 | 148 | 1000 | 1.5 | | | | | | | | | |
| 75 | 2 | 14 | 13465 | S12 W90 | 147 | 300 | 1.0 | | | | | | | | | |

MCMATH REGION 13468 CMP DATE 7.9

| | | | CALCIUM PLAGE DATA | | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 3 | 13468 | N23 E56 | 146 | 200 | 1.0 | | | | | | | | | |

MCMATH REGION 13472 CMP DATE 8.4

| | | | CALCIUM PLAGE DATA | | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 7 | 13472 | N39 E10 | 140 | 100 | 1.0 | | | | | | | | | |

MCMATH REGION 13481 CMP DATE 9.1

| | | | CALCIUM PLAGE DATA | | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 11 | 13481 | N13 W34 | 131 | 100 | 1.0 | | | | | | | | | |

MCMATH REGION 13490 CMP DATE 9.4

| | | | CALCIUM PLAGE DATA | | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 13 | 13490 | N39 W55 | 126 | 100 | 1.0 | | | | | | | | | |
| 75 | 2 | 14 | 13490 | N39 W68 | 125 | 100 | 1.0 | | | | | | | | | |

MCMATH REGION 13470 CMP DATE 9.5

| | | | CALCIUM PLAGE DATA | | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 3 | 13470 | N03 E88 | 114 | 400 | 1.5 | | | | | | | | | |
| 75 | 2 | 5 | | | | | | 19546 | N02 E53 | 123 | (BP) | 3 | R | 30 | 2 | CSO |
| 75 | 2 | 6 | 13470 | N03 E38 | 123 | 600 | 3.0 | 19546 | N02 E33 | 125 | BP | | B | 50 | 9 | DSO |
| 75 | 2 | 7 | 13470 | N03 E27 | 123 | 1100 | 3.5 | 19546 | N02 E23 | 124 | (BP) | 5 | B | 190 | 6 | DAO |
| 75 | 2 | 8 | 13470 | N03 E12 | 123 | 900 | 3.0 | 19546 | N03 E11 | 124 | (BP) | 5 | R | 130 | 7 | DAO |
| 75 | 2 | 9 | 13470 | N04 E00 | 123 | 1500 | 3.0 | | N04 W02 | | | | B | 180 | 9 | ESO |
| 75 | 2 | 10 | 13470 | N03 W16 | 125 | 1600 | 3.0 | 19546 | N02 W16 | 122 | BP | | B | 140 | 28 | CSO |
| 75 | 2 | 11 | 13470 | N03 W28 | 125 | 1600 | 2.5 | 19546 | N02 W30 | 126 | (BP) | 5 | B | 90 | 9 | CSO |
| 75 | 2 | 12 | 13470 | N03 W42 | 125 | 1600 | 3.0 | 19546 | N03 W48 | 127 | (BP | | B | 100 | 1 | HSX |
| 75 | 2 | 13 | 13470 | N03 W55 | 126 | 1200 | 2.5 | | N03 W61 | | | | B | 90 | 1 | HSX |
| 75 | 2 | 14 | 13470 | N03 W68 | 125 | 1300 | 2.0 | 19546 | N03 W70 | 127 | (BP | 3 | R | 70 | 1 | HSX |

# REGIONS OF SOLAR ACTIVITY

## FEBRUARY 1975

MCMATH REGION 13476 CMP DATE 9.8

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 9 | 13476 | N26 E02 | 121 | 100 | 1.5 | | | | | | | |
| 75 | 2 | 10 | 13476 | N26 W12 | 121 | 100 | 1.0 | | | | | | | |
| 75 | 2 | 11 | 13476 | N27 W26 | 123 | 100 | 1.0 | | | | | | | |

MCMATH REGION 13469 CMP DATE 10.0

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 3 | 13469 | S10 E85 | 117 | 400 | 1.5 | | | | | | | |
| 75 | 2 | 6 | 13469 | S09 E41 | 120 | 300 | 2.0 | | | | | | | |
| 75 | 2 | 7 | 13469 | S09 E31 | 119 | 300 | 2.0 | | | | | | | |
| 75 | 2 | 8 | 13469 | S09 E17 | 118 | 300 | 2.0 | | | | | | | |
| 75 | 2 | 9 | 13469 | S10 E05 | 118 | 400 | 2.0 | | | | | | | |
| 75 | 2 | 10 | 13469 | S10 W10 | 119 | 400 | 2.0 | | | | | | | |
| 75 | 2 | 11 | 13469 | S10 W24 | 121 | 300 | 1.5 | | | | | | | |
| 75 | 2 | 12 | 13469 | S10 W37 | 120 | 300 | 1.5 | | | | | | | |
| 75 | 2 | 13 | 13469 | S11 W50 | 121 | 200 | 1.0 | | | | | | | |

MCMATH REGION 13471 CMP DATE 11.3 RETURN OF REGION 13423* ROTATION 4

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 6 | 13471 | N18 E60 | 101 | 300 | 1.5 | 19547 | N18 E59 | 99 | AF | | | |
| 75 | 2 | 7 | 13471 | N18 E49 | 101 | 600 | 1.5 | | | | | | | |
| 75 | 2 | 8 | 13471 | N18 E36 | 99 | 500 | 2.0 | | | | | | | |
| 75 | 2 | 9 | 13471 | N18 E22 | 101 | 500 | 2.5 | | | | | | | |
| 75 | 2 | 10 | 13471 | N18 E08 | 101 | 500 | 2.5 | | | | | | | |
| 75 | 2 | 11 | 13471 | N18 W05 | 102 | 500 | 2.0 | | | | | | | |
| 75 | 2 | 12 | 13471 | N18 W19 | 102 | 500 | 2.0 | | | | | | | |
| 75 | 2 | 13 | 13471 | N18 W32 | 103 | 500 | 2.0 | | | | | | | |
| 75 | 2 | 14 | 13471 | N18 W45 | 102 | 700 | 2.0 | | | | | | | |

MCMATH REGION 13474 CMP DATE 11.3

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 8 | 13474 | S15 E34 | 101 | 100 | 1.0 | | | | | | | |
| 75 | 2 | 9 | 13474 | S17 E22 | 101 | 200 | 1.5 | | | | | | | |

MCMATH REGION 13478 CMP DATE 12.8 RETURN OF REGION 13421 ROTATION 2

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 7 | 13478 | S10 E72 | 78 | 200 | 1.0 | | | | | | | |
| 75 | 2 | 8 | 13478 | S10 E58 | 77 | 200 | 1.0 | | | | | | | |
| 75 | 2 | 9 | 13478 | S11 E43 | 80 | 200 | 1.5 | | | | | | | |
| 75 | 2 | 10 | 13478 | S10 E28 | 81 | 200 | 1.5 | | | | | | | |
| 75 | 2 | 11 | 13478 | S10 E15 | 82 | 200 | 1.5 | | | | | | | |
| 75 | 2 | 12 | 13478 | S09 E02 | 81 | 200 | 1.0 | | | | | | | |
| 75 | 2 | 13 | 13478 | S09 W11 | 82 | 200 | 1.0 | | | | | | | |
| 75 | 2 | 14 | 13478 | S10 W25 | 82 | 100 | 1.0 | | | | | | | |

MCMATH REGION 13485 CMP DATE 13.4

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 12 | 13485 | N10 E10 | 73 | 400 | 1.0 | | | | | | | |
| 75 | 2 | 13 | 13485 | N10 E02 | 69 | 300 | 1.0 | | | | | | | |
| 75 | 2 | 14 | 13485 | N10 W12 | 69 | 200 | 1.0 | | | | | | | |

*An asterisk beside the "Return of Region" number indicates that the new region is only part of the area of the old region.

# REGIONS OF SOLAR ACTIVITY

## FEBRUARY 1975

MCMATH REGION 13493 CMP DATE 13.7

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 14 | 13493 | N22 W13 | 70 | 100 | 1.0 | | | | | | | | | |

MCMATH REGION 13475 CMP DATE 14.1

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 8 | 13475 | S11 E75 | 60 | 200 | 2.5 | | | | | | | | | |
| 75 | 2 | 9 | 13475 | S11 E61 | 62 | 200 | 2.5 | | | | | | | | | |
| 75 | 2 | 10 | 13475 | S12 E45 | 64 | 100 | 1.0 | | | | | | | | | |

MCMATH REGION 13479 CMP DATE 14.3

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 9 | 13479 | N11 E56 | 67 | 200 | 1.5 | | | | | | | | | |
| 75 | 2 | 10 | 13479 | N12 E42 | 67 | 500 | 1.0 | | | | | | | | | |
| 75 | 2 | 11 | 13479 | N13 E35 | 62 | 600 | 1.0 | | | | | | | | | |
| 75 | 2 | 12 | 13479 | N14 E22 | 61 | 400 | 1.0 | | | | | | | | | |

MCMATH REGION 13482 CMP DATE 15.0

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 11 | 13482 | N01 E45 | 52 | 100 | 1.0 | | | | | | | | | |
| 75 | 2 | 12 | 13482 | N01 E31 | 52 | 300 | 1.0 | | | | | | | | | |
| 75 | 2 | 13 | 13482 | N01 E19 | 52 | 100 | 1.0 | | | | | | | | | |

MCMATH REGION 13480 CMP DATE 15.1

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 10 | 13480 | N09 E58 | 51 | 200 | 1.0 | | | | | | | | | |

MCMATH REGION 13491 CMP DATE 15.1

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 13 | 13491 | S20 E20 | 51 | 200 | 2.0 | | | | | | | | | |

MCMATH REGION 13494 CMP DATE 15.5

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 16 | | | | | | 19550 | N12 W12 | 43 | ( B) | 1 | R | 10 | 6 | BXO |
| 75 | 2 | 19 | 13494 | N13 W55 | 45 | 200 | 2.0 | | | | | | | | | |
| 75 | 2 | 20 | 13494 | N13 W68 | 47 | 300 | 2.5 | | | | | | | | | |
| 75 | 2 | 21 | 13494 | N13 W84 | 50 | 100 | 1.0 | | | | | | | | | |

MCMATH REGION 13492 CMP DATE 16.2

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 13 | 13492 | N11 E34 | 37 | 100 | 1.0 | | | | | | | | | |
| 75 | 2 | 14 | 13492 | N11 E20 | 37 | 100 | 1.0 | | | | | | | | | |

# REGIONS OF SOLAR ACTIVITY

## FEBRUARY 1975

MCMATH REGION 13483 CMP DATE 16.7

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 11 | 13483 | N15 E66 | 31 | 100 | 1.0 | | | | | | | |
| 75 | 2 | 12 | 13483 | N15 E54 | 29 | 200 | 1.0 | | | | | | | |

MCMATH REGION 13495 CMP DATE 17.0

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 19 | 13495 | N17 W35 | 25 | 100 | 1.5 | | | | | | | |
| 75 | 2 | 20 | 13495 | N17 W47 | 26 | 100 | 1.0 | | | | | | | |
| 75 | 2 | 21 | 13495 | N17 W60 | 26 | 100 | 1.0 | | | | | | | |
| 75 | 2 | 22 | 13495 | N17 W75 | 28 | 100 | 1.0 | | | | | | | |

MCMATH REGION 13486 CMP DATE 17.2

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 12 | 13486 | N10 E60 | 23 | 200 | 1.5 | | | | | | | |

MCMATH REGION 13487 CMP DATE 17.8

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 12 | 13487 | N08 E69 | 14 | 100 | 2.5 | | | | | | | |
| 75 | 2 | 13 | 13487 | N08 E55 | 16 | 100 | 1.0 | | | | | | | |

MCMATH REGION 13488 CMP DATE 18.4

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 12 | 13488 | N05 E70 | 13 | 500 | 2.0 | | | | | | | |
| 75 | 2 | 13 | 13488 | N04 E63 | 8 | 200 | 1.0 | | | | | | | |
| 75 | 2 | 14 | 13488 | N03 E49 | 8 | 100 | 1.0 | | | | | | | |

MCMATH REGION 13489 CMP DATE 18.7

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 12 | 13489 | S26 E80 | 3 | 300 | 1.0 | | | | | | | |

MCMATH REGION 13501 CMP DATE 19.1

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 22 | 13501 | N06 W46 | 359 | 100 | 1.5 | | | | | | | |

MCMATH REGION 13502 CMP DATE 20.2

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H STA | AREA | CNT CLASS |
| 75 | 2 | 22 | 13502 | S50 W32 | 345 | 100 | 1.0 | | | | | | | |

# REGIONS OF SOLAR ACTIVITY

## FEBRUARY 1975

MCMATH REGION 13499 CMP DATE 20.6

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 20 | 13499 | N09 W01 | 340 | 100 | 2.0 | 19551 | N10 W01 | 340 | BF) | 2 | B | 10 | 1 | AXX |
| 75 | 2 | 21 | 13499 | N10 W14 | 340 | 200 | 1.5 | | | | | | | | | |
| 75 | 2 | 22 | 13499 | N10 W27 | 340 | 200 | 1.5 | | | | | | | | | |
| 75 | 2 | 24 | 13499 | N08 W55 | 341 | 200 | 1.0 | | | | | | | | | |

MCMATH REGION 13505 CMP DATE 21.8

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 24 | 13505 | N10 W37 | 323 | 200 | 2.0 | | | | | | | | | |

MCMATH REGION 13503 CMP DATE 22.4

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 21 | | | | | | | N00 E00 | | | | R | 10 | 1 | HRX |
| 75 | 2 | 22 | 13503 | N01 W02 | 315 | 100 | 1.5 | 19552 | N01 W08 | 317 | BF) | 2 | B | 10 | 1 | AXX |
| 75 | 2 | 24 | 13503 | N02 W27 | 313 | 400 | 1.5 | 19554 | N04 W25 | 311 | BF) | 2 | B | 0 | 1 | AXX |
| 75 | 2 | 26 | 13503 | N03 W52 | 312 | 300 | 1.0 | | | | | | | | | |
| 75 | 2 | 27 | 13503 | N03 W63 | 309 | 200 | 1.0 | | | | | | | | | |

MCMATH REGION 13510 CMP DATE 23.7

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 27 | 13510 | S11 W52 | 298 | 100 | 1.0 | | | | | | | | | |

MCMATH REGION 13496 CMP DATE 24.0

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 19 | 13496 | S11 E56 | 294 | 100 | 1.0 | | | | | | | | | |
| 75 | 2 | 20 | 13496 | S12 E44 | 295 | 100 | 1.5 | | | | | | | | | |

MCMATH REGION 13511 CMP DATE 24.0

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 27 | 13511 | N24 W48 | 294 | 200 | 1.0 | | | | | | | | | |

MCMATH REGION 13506 CMP DATE 24.7

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 23 | | | | | | 19553 | S09 E09 | 286 | (BF) | 2 | B | 20 | 7 | BXO |
| 75 | 2 | 24 | 13506 | S08 E01 | 285 | 200 | 2.5 | 19553 | S09 E01 | 285 | (BF) | 3 | B | 20 | 21 | BXO |
| 75 | 2 | 25 | | | | | | 19553 | S09 W12 | 285 | (BP | 3 | B | 10 | 4 | AXX |
| 75 | 2 | 26 | 13506 | S09 W26 | 286 | 400 | 2.0 | | | | | | | | | |
| 75 | 2 | 27 | 13506 | S10 W40 | 286 | 300 | 1.5 | | | | | | | | | |
| 75 | 2 | 28 | 13506 | S09 W54 | 287 | 300 | 1.5 | | | | | | | | | |
| 75 | 3 | 1 | 13506 | S08 W67 | 288 | 400 | 1.5 | | | | | | | | | |

MCMATH REGION 13498 CMP DATE 25.3

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 2 | 19 | 13498 | S12 E76 | 274 | 200 | 1.5 | | | | | | | | | |
| 75 | 2 | 20 | 13498 | S13 E62 | 277 | 200 | 1.0 | | | | | | | | | |

# REGIONS OF SOLAR ACTIVITY

## FEBRUARY 1975

MCMATH REGION 13513 CMP DATE 25.4

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT CLASS |
| 75 | 2 | 28 | 13513 | N24 W43 | 276 | 200 | 1.0 | | | | | | | | |

MCMATH REGION 13516 CMP DATE 25.5

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT CLASS |
| 75 | 3 | 1 | 13516 | S02 W57 | 278 | 200 | 1.5 | | | | | | | | |
| 75 | 3 | 2 | 13516 | S05 W70 | 274 | 200 | 1.0 | | | | | | | | |

MCMATH REGION 13497 CMP DATE 25.5

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT CLASS |
| 75 | 2 | 19 | 13497 | N12 E84 | 266 | 300 | 1.0 | | | | | | | | |
| 75 | 2 | 20 | 13497 | N12 E68 | 271 | 400 | 2.0 | | | | | | | | |
| 75 | 2 | 21 | 13497 | N11 E55 | 271 | 400 | 1.5 | | | | | | | | |
| 75 | 2 | 22 | 13497 | N10 E42 | 271 | 400 | 1.5 | | | | | | | | |
| 75 | 2 | 24 | 13497 | N10 E12 | 274 | 400 | 1.5 | | | | | | | | |
| 75 | 2 | 26 | 13497 | N10 W14 | 274 | 200 | 1.0 | | | | | | | | |
| 75 | 2 | 27 | 13497 | N10 W27 | 273 | 200 | 1.0 | | | | | | | | |
| 75 | 2 | 28 | 13497 | N11 W42 | 275 | 300 | 1.0 | | | | | | | | |
| 75 | 3 | 1 | 13497 | N11 W55 | 276 | 300 | 1.0 | | | | | | | | |
| 75 | 3 | 2 | 13497 | N10 W68 | 272 | 300 | 1.0 | | | | | | | | |

MCMATH REGION 13514 CMP DATE 26.5

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT CLASS |
| 75 | 2 | 25 | | | | | | | N00 E00 | | | H | 10 | 1 | AXX |
| 75 | 2 | 28 | 13514 | N01 W29 | 262 | 200 | 1.5 | | | | | | | | |
| 75 | 3 | 1 | 13514 | S01 W42 | 263 | 200 | 1.0 | | | | | | | | |
| 75 | 3 | 2 | 13514 | S02 W56 | 260 | 200 | 1.0 | | | | | | | | |

MCMATH REGION 13500 CMP DATE 27.0

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT CLASS |
| 75 | 2 | 20 | 13500 | N10 E90 | 249 | 200 | 1.0 | | | | | | | | |
| 75 | 2 | 21 | 13500 | N09 E69 | 257 | 200 | 1.0 | | | | | | | | |
| 75 | 2 | 22 | 13500 | N09 E58 | 255 | 100 | 1.0 | | | | | | | | |

MCMATH REGION 13504 CMP DATE 27.1

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT CLASS |
| 75 | 2 | 22 | 13504 | N02 E59 | 254 | 100 | 1.0 | | | | | | | | |

MCMATH REGION 13523 CMP DATE 28.6

| | | | | CALCIUM PLAGE DATA | | | | SUNSPOT DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT CMD | L | AREA | INT | MW NO. | LAT CMD | L | MAG. | H | STA | AREA | CNT CLASS |
| 75 | 3 | 4 | 13523 | N03 W53 | 234 | 100 | 1.0 | | | | | | | | |

# REGIONS OF SOLAR ACTIVITY

## FEBRUARY 1975

MCMATH REGION 13517 CMP DATE 28.7

| | | | | CALCIUM PLAGE DATA | | | | | SUNSPOT DATA | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | DA | MC NO. | LAT | CMD | L | AREA | INT | MW NO. | LAT | CMD | L | MAG. | H | STA | AREA | CNT | CLASS |
| 75 | 3 | 1 | 13517 | | | | | | 19555 | N11 | W12 | 232 | (BP) | 2 | B | 20 | 2 | BXO |
| 75 | 3 | 2 | 13517 | N12 | W28 | 232 | 500 | 3.0 | 19555 | N12 | W31 | 233 | ( B) | 3 | B | 50 | 12 | CSO |
| 75 | 3 | 3 | 13517 | N12 | W40 | 233 | 1000 | 3.0 | 19555 | N12 | W44 | 233 | (BF) | 3 | B | 20 | 18 | BXI |
| 75 | 3 | 4 | 13517 | N13 | W54 | 235 | 1100 | 3.0 | 19555 | N12 | W55 | 235 | ( B) | 2 | B | 10 | 2 | BXO |
| 75 | 3 | 5 | 13517 | N14 | W68 | 236 | 900 | 2.5 | | N12 | W75 | | | | B | 0 | 1 | AXX |

Note: No calcium spectroheliograms were secured at the McMath-Hulbert Observatory on February 4, 5, 15-18, 23 and 25, 1975.
No sunspot observations were made at Mt. Wilson Observatory on February 1, 3, 4, 9 and 13, 1975.

# DAILY CALCIUM PLAGE INDEX

## FEBRUARY 1975

| YR | MO | DAY | INDEX | YR | MO | DAY | INDEX | YR | MO | DAY | INDEX |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 2 | 1 | 3.2 | 75 | 2 | 11 | 7.4 | 75 | 2 | 21 | 0.7 |
| 75 | 2 | 2 | 4.6 | 75 | 2 | 12 | 7.7 | 75 | 2 | 22 | 1.1 |
| 75 | 2 | 3 | 6.6 | 75 | 2 | 13 | 4.1 | 75 | 2 | 23 | * |
| 75 | 2 | 4 | * | 75 | 2 | 14 | 2.4 | 75 | 2 | 24 | 2.0 |
| 75 | 2 | 5 | * | 75 | 2 | 15 | * | 75 | 2 | 25 | * |
| 75 | 2 | 6 | 7.0 | 75 | 2 | 16 | * | 75 | 2 | 26 | 1.5 |
| 75 | 2 | 7 | 8.5 | 75 | 2 | 17 | * | 75 | 2 | 27 | 0.9 |
| 75 | 2 | 8 | 7.7 | 75 | 2 | 18 | * | 75 | 2 | 28 | 1.0 |
| 75 | 2 | 9 | 10.6 | 75 | 2 | 19 | 0.5 | | | | |
| 75 | 2 | 10 | 10.1 | 75 | 2 | 20 | 1.0 | | | | |

* NO OBSERVATIONS

# SUDDEN IONOSPHERIC DISTURBANCES

## FEBRUARY 1975

| DAY | UNIVERSAL TIME START | END | MAX | IMP | WIDE SPREAD INDEX | NUMBER OF STATION REPORTS BY TYPE SWF | SCNA | SEA | SPA | LF-SPA | SES | SFD | KNOWN FLARE | McMATH REGION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 | 1755 | 1830 | 1800 | 1- | 5 | 1 | | | 1 | | 9 | | 1753 | 13470 |
| 05 | 1913 | 1945 | 1919 | 1- | 5 | 2 | | 1 | 2 | 1 | 10 | | 1911 | 13470 |
| 07 | 0211 | 0235 | 0218 | 1- | 1 | | | | 1 | | | | 0213E | 13470 |
| 07 | 1449 | 1515 | 1450 | 1- | 1 | | | | | 1 | | | 1452 | 13470 |
| 07 | 1602 | 1612 | 1604 | 1- | 1 | | | | 1 | | | | * | |
| 07 | 1744 | 1757 | 1753 | 1- | 1 | 1 | | | | | | | * | |
| 11 | 2300 | 2330 | 2305 | 1- | 1 | | | | 1 | | | | * | |
| 14 | 1705 | 1715 | 1710 | 1- | 1 | 1 | | | | | | | * | |

PERIODS OF NO OBSERVATIONS:

| DATE | TIME (UT) and STATION |
|---|---|
| 01-10 | 0000-2400 A28 |
| 01-02 | 0000-2400 A30 |
| 03 | 0000-2400 A41, 2330-2334 TM |
| 04 | 0000-2400 A41, 0000-2400 TN, 1004-1327 UM (16 kHz) |
| 05-10 | 0000-2400 A36 |
| 05 | 1632-1640 TM |
| 07-09 | 0000-2400 A41 |
| 07 | 1400-1737 UM (17 kHz) |
| 09 | 1015-2400 A35, 1358-1440 TM |
| 10-13 | 0000-2400 A29 |
| 10 | 0000-1545 A35, 0444-0530 TM |
| 11 | 1005-1344 UM (16 kHz), 1627-1952 MC |
| 13-28 | 0000-2400 A41 |
| 13 | 1550-1913 UM (13 kHz) |
| 14 | 1410-1708 UM (17 kHz), 1420-2231 UM (13 kHz) |
| 15 | 1544-2020 UM (13 kHz) |
| 18 | 1002-1335 UM (16 kHz) |
| 19 | 0025-0215 TM |
| 21 | 1406-1546 UM (17 kHz) |
| 24 | 0810-0925 UM (16 kHz) |
| 25 | 1008-1250 UM (16 kHz) |
| 27 | 0405-1120 UM (16 kHz) |
| 28 | 1820-2400 UM (13 kHz) |

STATIONS REPORTING FOR FEBRUARY 1975

AAVSO (A1, A4, A19, A21, A28, A29, A30, A31, A32, A35, A36, A37, A40, A41)
(SES) (A1, A26) (SEA) (A31) (SWF)
BOULDER (BO) (SCNA, SEA)
DARMSTADT (DA) (SWF)
DEBRE ZEIT (DE) (SPA)
HERSTMONCEUX (HC) (SEA)
HIRAISO (HI) (SWF)
HOBART (TA) (SEA)
HERMANUS (HS) (SEA)
HUANCAYO (HU) (SWF)
INUBO (IN) (SPA)
JOHANNESBERG (JH) (SPA)
KULA (KL) (SPA)
MCMATH (MC) (SWF, SCNA)
PANSKA VES (PU) (SWF, SEA, SES)
POITIERS (PO) (SEA)
PRESTON (LO) (SEA)
SAO PAULO (UM) (SES, SPA)
SOFIA (SF) (SEA)
ST CLOUD (SC) (SES)
TABLE MOUNTAIN (TM) (SPA, LF-SPA)
TORINO (TN) (SPA)
TORTOSA (TS) (SEA)
UPICE (UI) (SEA)

A41 is a new observer reporting for the first time from Hamilton, New York
HS is a new observer reporting for the first time from Hermanus, South Africa

# SIDS BY McMATH REGION

## FEBRUARY 1975

| DAY | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| REGION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | | | | | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| X-RAY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNKNOWN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO FP | | | | | | | 2 | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | |

# SOLAR RADIO EMISSION
# SPECTRAL OBSERVATIONS

FEBRUARY 1975

| FEB 1975 | TIMES OF OBSERVATION | | STATION | EVENTS | | | | | | | | | | | | | SPECTRAL TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTIMETRIC BAND | | | DECIMETRIC BAND | | | METRIC BAND | | | DEKAMETRIC BAND | | | | |
| | START UT | END UT | | START UT | END UT | INT. | START UT | END UT | INT. | START UT | END UT | INT. | START UT | END UT | INT. | | |
| 01 | 0000 | 0746 | CULG | | | | | | | | | | | | | | |
| | 0000 | 0030 | BOUL | | | | | | | | | | | | | | |
| | 0000 | 0938 | MANI | | | | | | | | | | | | | | |
| | 0715 | 1608 | DURN | | | | | | | | | | | | | | |
| | 0741 | 1535 | WEIS | | | | | | | | | | | | | | |
| | 1202 | 2152 | SGMR | | | | | | | | | | | | | | |
| | 1400 | 2400 | BOUL | | | | | | | | | | | | | | |
| | 1601 | 2346 | HARV | | | | | | | | | | | | | | |
| | 2046 | 2400 | CULG | | | | | | | | | | | | | | |
| | 2224 | 2400 | MANI | | | | | | | | | | | | | | |
| 02 | 0000 | 0938 | MANI | | | | | | | | | | | | | | |
| | 0000 | 0030 | BOUL | | | | | | | | | | | | | | |
| | 0000 | 0746 | CULG | | | | | | | | | | | | | | |
| | 0740 | 1209 | WEIS | | | | | | | | | | | | | | |
| | 1201 | 2153 | SGMR | | | | | | | | | | | | | | |
| | 1400 | 2400 | BOUL | | | | | | | | | | | | | | |
| | 1402 | 2351 | HARV | | | | | | | | | | | | | | |
| | 1450 | 1508 | DURN | | | | | | | | | | | | | | |
| | 2046 | 2400 | CULG | | | | | | | | | | | | | | |
| | 2224 | 2400 | MANI | | | | | | | | | | | | | | |
| 03 | 0000 | 0938 | MANI | | | | | | | | | | | | | | |
| | 0000 | 0030 | BOUL | | | | | | | | | | | | | | |
| | 0000 | 0747 | CULG | | | | | | | | | | | | | | |
| | 0713 | 1608 | DURN | | | | | | | | | | | | | | |
| | 0740 | 1540 | WEIS | | | | | | | | | | | | | | |
| | 1200 | 2154 | SGMR | | | | | | | | | | | | | | |
| | 1400 | 2400 | BOUL | | | | | | | | | | | | | | |
| | 1402 | 2346 | HARV | | | | | | | | | | | | | | |
| | 2047 | 2400 | CULG | | | | | | | | | | | | | | |
| | 2224 | 2400 | MANI | | | | | | | | | | | | | | |
| 04 | 0000 | 0939 | MANI | | | | | | | | | | | | | | |
| | 0000 | 0030 | BOUL | | | | | | | | | | | | | | |
| | 0000 | 0746 | CULG | | | | | | | | | | | | | | |
| | 0712 | 1608 | DURN | | | | | | | | | | | | | | |
| | 0737 | 1543 | WEIS | | | | | | | | | | | | | | |
| | 1159 | 2156 | SGMR | | | | | | | | | | | | | | |
| | 1400 | 2100 | BOUL | | | | | | | | | | | | | | |
| | 1402 | 2346 | HARV | | | | | | | | | | | | | | |
| | 2046 | 2400 | CULG | | | | | | | | | | | | | | |
| | 2224 | 2400 | MANI | | | | | | | | | | | | | | |
| 05 | 0000 | 0939 | MANI | | | | | | | | | | | | | | |
| | 0000 | 0030 | BOUL | | | | | | | | | | | | | | |
| | 0000 | 0746 | CULG | | | | | | | | | | | | | | |
| | 1214 | 1543 | WEIS | | | | | | | | | | | | | | |
| | 0738 | 1200 | WEIS | | | | | | | 1354.3 | 1354.8 | 2 | | | | | IIIG |
| | 0711 | 1604 | DURN | | | | 1354.4 | 1354.7 | 3 | 1354.2 | 1354.7 | 3 | | | | | IIIG |
| | 1158 | 2157 | SGMR | | | | | | | | | | 1354.5 | 1354.9 | 2 | | III |
| | 1400 | 2400 | BOUL | | | | | | | 1536.4 | 1537.3 | 2 | 1536.4 | 1537.3 | 2 | | IIIG |
| | | | SGMR | | | | | | | | | | 1536.5 | 1536.8 | 1 | | III |
| | | | BOUL | | | | | | | 1757.5 | 1758.1 | 1 | 1757.5 | 1758.1 | 1 | | IIIG |
| | | | BOUL | | | | | | | 1910.7 | 1914.3 | 2 | 1910.7 | 1914.3 | 2 | | IIIGG |
| | 1401 | 2346 | HARV | | | | | | | 1911 | 1914 | 2 | 1911 | 1914 | 2 | | IIIGG |
| | | | SGMR | | | | | | | | | | 1912.1 | 1914.2 | 1 | | V |
| | | | HARV | | | | | | | 1917 | 1920 | 3 | 1918 | 1920 | 3 | | IIIGG |
| | | | BOUL | | | | | | | 1917.2 | 1919.6 | 2 | 1917.2 | 1919.6 | 2 | | IIIG |
| | | | SGMR | | | | | | | | | | 1917.9 | 1918.3 | 2 | | III |
| | | | BOUL | | | | | | | 2024.9 | 2025.0 | 1 | 2024.9 | 2025.0 | 1 | | III |
| | 2046 | 2400 | CULG | | | | | | | 2046 | 2400 | | | | | | IIIN,W |
| | 2224 | 2400 | MANI | | | | | | | | | | | | | | |
| 06 | 0000 | 0939 | MANI | | | | | | | | | | | | | | |
| | 0000 | 0030 | BOUL | | | | | | | | | | | | | | |
| | 0000 | 0746 | CULG | | | | | | | 0000 | 0210 | | | | | | IIIN,W |
| | 0709 | 1604 | DURN | | | | | | | | | | | | | | |
| | 0734 | 1544 | WEIS | | | | | | | | | | | | | | |
| | 1157 | 2158 | SGMR | | | | | | | | | | | | | | |
| | 1402 | 2346 | HARV | | | | | | | | | | | | | | |
| | 1400 | 2400 | BOUL | | | | | | | 2007 | 2323 | 1 | 2007 | 2323 | 1 | | CONT |
| | 2046 | 2400 | CULG | | | | | | | 2046 | 2310 | | | | | | IIIS,W |
| | | | CULG | | | | | | | 2046 | 2350 | | | | | | IS,W |
| | 2224 | 2400 | MANI | | | | | | | | | | | | | | |
| | | | CULG | | | | | | | 2310 | 2400 | | | | | | IIIN,W |
| 07 | 0000 | 0939 | MANI | | | | | | | | | | | | | | |
| | 0000 | 0030 | BOUL | | | | | | | | | | | | | | |
| | 0000 | 0733 | CULG | | | | | | | 0000 | 0733 | | | | | | IIIN,W |
| | | | CULG | | | | | | | 0043 | 0045 | | | | | | IIIG |
| | 0735 | 1535 | WEIS | | | | | | | | | | | | | | |
| | 1155 | 2200 | SGMR | | | | | | | | | | | | | | |
| | 0707 | 1605 | DURN | | | | | | | 1220 | 1605 D | 2 | | | | | IN |
| | 1402 | 2346 | HARV | | | | | | | 1402 | 2338 | 1 | | | | | IN |
| | | | CULG | | | | | | | 2046 | 2400 | | | | | | IIIN,W |
| | 2046 | 2400 | CULG | | | | | | | 2046 | 2400 | | | | | | IS |
| | | | CULG | | | | | | | 2047.5 | | | | | | | IIIB |
| | 1400 | 2400 | BOUL | | | | | | | 2047.8 | 2048.1 | 1 | 2047.8 | 2048.1 | 1 | | III |
| | 2224 | 2400 | MANI | | | | | | | | | | | | | | |

# SOLAR RADIO EMISSION
# SPECTRAL OBSERVATIONS

FEBRUARY 1975

| DAY | TIMES OF OBSERVATION START UT | TIMES OF OBSERVATION END UT | STATION | EVENTS: CENTIMETRIC BAND START UT | CENTIMETRIC BAND END UT | CENTIMETRIC BAND INT. | DECIMETRIC BAND START UT | DECIMETRIC BAND END UT | DECIMETRIC BAND INT. | METRIC BAND START UT | METRIC BAND END UT | METRIC BAND INT. | DEKAMETRIC BAND START UT | DEKAMETRIC BAND END UT | DEKAMETRIC BAND INT. | SPECTRAL TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 07 | | | CULG | | | | | | | 2354 | 0005 | | | | | IIIGG |
| 08 | | | CULG | | | | | | | 0000 | 0746 | | | | | IIIN,W |
| | 0000 | 0746 | CULG | | | | | | | 0000 | 0746 | | | | | IS |
| | 0000 | 0030 | BOUL | | | | | | | | | | | | | |
| | 0706 | 1602 | DURN | | | | | | | 0706 E | 1602 D | 2 | | | | IN |
| | | | CULG | | | | | | | 0709 | | 2 | 0709 | | 1 | IIIB |
| | 0000 | 0939 | MANI | | | | | | | | | | 0709.1 | 0709.3 | 1 | III |
| | | | CULG | | | | | | | 0710.5 | 0711.5 | 2 | 0711 | 0711.5 | 1 | IIIG |
| | | | DURN | | | | 0911.6 | 0911.8 | 2 | 0911.6 | 0911.8 | 2 | | | | IIIG |
| | | | DURN | | | | 0943.5 | 0943.6 | 2 | 0943.5 | 0943.6 | 1 | | | | III |
| | 1154 | 2201 | SGMR | | | | | | | | | | | | | |
| | 1400 | 2400 | BOUL | | | | | | | 1533.7 | 1534.2 | 1 | 1533.7 | 1534.2 | 1 | III |
| | 1402 | 2346 | HARV | | | | | | | 1534 | 1535 | 2 | 1534 | 1535 | 1 | IIIG |
| | | | BOUL | | | | | | | 1714.8 | 1714.9 | 1 | 1714.8 | 1714.9 | 1 | III |
| | | | CULG | | | | | | | 2046 | 2400 | | | | | IS,W |
| | 2046 | 2400 | CULG | | | | | | | 2046 | 2400 | | | | | IIIN,W |
| | | | BOUL | | | | | | | | | | 2100 | 2400 | 1 | CONT |
| | 2223 | 2331 | MANI | | | | | | | | | | | | | |
| 09 | | | CULG | | | | | | | 0000 | 0040 | | | | | IS,W |
| | 0000 | 0746 | CULG | | | | | | | 0000 | 0436 | 1 | | | | IIIN |
| | | | CULG | | | | | | | 0000.5 | 0001 | 2 | 0000.5 | 0001 | 1 | IIIG |
| | 0000 | 0030 | BOUL | | | | | | | 0001.0 | 0001.3 | 1 | 0001.0 | 0001.3 | 1 | III |
| | | | CULG | | | | | | | 0023.5 | 0024.5 | 2 | 0023.5 | 0024 | 1 | IIIG |
| | | | CULG | | | | | | | 0531 | 0531.5 | 1 | 0531 | 0531.5 | 1 | IIIG |
| | 0045 | 0605 | MANI | | | | | | | | | | 0531.3 | 0536.1 | 2 | IIIG |
| | | | CULG | | | | | | | 0535 | 0536 | 2 | 0535 | 0536 | 2 | IIIG |
| | 0625 | 0939 | MANI | | | | | | | | | | | | | |
| | 0704 | 1602 | DURN | | | | | | | | | | | | | |
| | 1153 | 2202 | SGMR | | | | | | | | | | | | | |
| | 1402 | 2345 | HARV | | | | | | | | | | | | | |
| | 1400 | 2400 | BOUL | | | | | | | | | | 1557.4 | 1557.6 | 1 | III |
| | 2046 | 2400 | CULG | | | | | | | 2046 | 2400 | | | | | IIIN,W |
| | | | CULG | | | | | | | 2105 | 2400 | | | | | IS,W |
| | 2223 | 2400 | MANI | | | | | | | | | | | | | |
| | | | BOUL | | | | | | | 2226.9 | 2227.1 | 1 | 2226.9 | 2227.1 | 1 | III |
| 10 | 0000 | 0030 | BOUL | | | | | | | | | | | | | |
| | 0000 | 0939 | MANI | | | | | | | | | | | | | |
| | | | CULG | | | | | | | 0000 | 0230 | | | | | IS,W |
| | 0000 | 0746 | CULG | | | | | | | 0000 | 0430 | | | | | IIIN,W |
| | 0825 | 1551 | WEIS | | | | | | | | | | | | | |
| | 1152 | 2204 | SGMR | | | | | | | | | | | | | |
| | 0704 | 1602 | DURN | | | | 1200 | 1230 | 2 | 0840 | 1500 | 2 | | | | I |
| | 1400 | 2400 | BOUL | | | | | | | | | | | | | |
| | 1401 | 2351 | HARV | | | | | | | | | | | | | |
| | 2046 | 2400 | CULG | | | | | | | | | | | | | |
| | 2222 | 2400 | MANI | | | | | | | | | | | | | |
| 11 | 0000 | 0939 | MANI | | | | | | | | | | | | | |
| | 0000 | 0030 | BOUL | | | | | | | | | | | | | |
| | 0000 | 0746 | CULG | | | | | | | | | | | | | |
| | 0726 | 1553 | WEIS | | | | | | | | | | | | | |
| | 0703 | 1602 | DURN | | | | 0740 | 0810 | 2 | 0759 | 0800 | 2 | | | | I |
| | 1151 | 2205 | SGMR | | | | | | | | | | | | | |
| | | | DURN | | | | | | | 1330 | 1420 | 2 | | | | I |
| | 1402 | 2346 | HARV | | | | | | | | | | | | | |
| | 1400 | 2200 | BOUL | | | | | | | 1652.0 | 1652.2 | 1 | 1652.0 | 1652.2 | 1 | III |
| | 2046 | 2400 | CULG | | | | | | | 2217 | 2317 | | | | | IIIN,W |
| | 2221 | 2400 | MANI | | | | | | | | | | | | | |
| 12 | 0000 | 0939 | MANI | | | | | | | | | | | | | |
| | 0000 | 0735 | CULG | | | | | | | 0321 | 0322 | | | | | IIIG |
| | 0725 | 1118 | WEIS | | | | | | | | | | | | | |
| | 0700 | 1530 | DURN | | | | 1020 | 1530 D | 2 | 0800 | 1530 D | 2 | | | | IN |
| | 1124 | 1555 | WEIS | | | | | | | | | | | | | |
| | 1149 | 2206 | SGMR | | | | | | | | | | | | | |
| | 1400 | 2400 | BOUL | | | | | | | | | | | | | |
| | 1402 | 2346 | HARV | | | | | | | 1402 E | 1415 | 1 | | | | IN |
| | 2045 | 2400 | CULG | | | | | | | | | | | | | |
| | 2221 | 2400 | MANI | | | | | | | | | | | | | |
| 13 | 0000 | 0939 | MANI | | | | | | | | | | | | | |
| | 0000 | 0030 | BOUL | | | | | | | | | | | | | |
| | 0000 | 0746 | CULG | | | | | | | | | | | | | |
| | 0658 | 1417 | DURN | | | | | | | | | | | | | |
| | 0721 | 1557 | WEIS | | | | | | | | | | | | | |
| | 1148 | 2208 | SGMR | | | | | | | | | | | | | |
| | 1402 | 2346 | HARV | | | | | | | | | | | | | |
| | 1400 | 2400 | BOUL | | | | | | | | | | 1739.0 | 1739.1 | 1 | III |
| | 2046 | 2400 | CULG | | | | | | | | | | | | | |
| | 2221 | 2400 | MANI | | | | | | | | | | | | | |
| 14 | 0000 | 0940 | MANI | | | | | | | | | | | | | |
| | 0000 | 0030 | BOUL | | | | | | | | | | | | | |
| | 0000 | 0746 | CULG | | | | | | | | | | | | | |
| | 0655 | 1602 | DURN | | | | | | | | | | | | | |
| | 0722 | 1411 | WEIS | | | | | | | | | | | | | |
| | 1147 | 2209 | SGMR | | | | | | | | | | | | | |

# SOLAR RADIO EMISSION
# SPECTRAL OBSERVATIONS

FEBRUARY 1975

| DAY OF MONTH | TIMES OF OBSERVATION | | STATION | EVENTS | | | | | | | | | | | | | SPECTRAL TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTIMETRIC BAND | | | DECIMETRIC BAND | | | METRIC BAND | | | DEKAMETRIC BAND | | | | |
| | START UT | END UT | | START UT | END UT | INT. | START UT | END UT | INT. | START UT | END UT | INT. | START UT | END UT | INT. | | |
| 14 | 1400 | 2400 | BOUL | | | | | | | | | | | | | | |
| | 1402 | 2346 | HARV | | | | | | | | | | | | | | |
| | 2046 | 2400 | CULG | | | | | | | | | | | | | | |
| | 2220 | 2400 | MANI | | | | | | | | | | | | | | |
| 15 | 0000 | 0941 | MANI | | | | | | | | | | | | | | |
| | 0000 | 0030 | BOUL | | | | | | | | | | | | | | |
| | 0000 | 0746 | CULG | | | | | | | | | | | | | | |
| | 0655 | 1602 | DURN | | | | | | | | | | | | | | |
| | 1145 | 2210 | SGMR | | | | | | | | | | | | | | |
| | 1401 | 2346 | HARV | | | | | | | | | | | | | | |
| | 2046 | 2400 | CULG | | | | | | | | | | | | | | |
| | 2220 | 2400 | MANI | | | | | | | | | | | | | | |
| 16 | 0000 | 0942 | MANI | | | | | | | | | | | | | | |
| | 0000 | 0746 | CULG | | | | | | | | | | | | | | |
| | 0653 | 1527 | DURN | | | | | | | | | | | | | | |
| | 0716 | 1601 | WEIS | | | | | | | | | | | | | | |
| | 1144 | 2212 | SGMR | | | | | | | | | | | | | | |
| | 1402 | 2345 | HARV | | | | | | | | | | | | | | |
| | 1542 | 1602 | DURN | | | | | | | | | | | | | | |
| | 2046 | 2400 | CULG | | | | | | | | | | | | | | |
| | 2219 | 2400 | MANI | | | | | | | | | | | | | | |
| 17 | 0000 | 0943 | MANI | | | | | | | | | | | | | | |
| | 0000 | 0739 | CULG | | | | | | | | | | | | | | |
| | 0652 | 1602 | DURN | | | | | | | | | | | | | | |
| | 0717 | 1603 | WEIS | | | | | | | 9837.6 | 9838.0 | 1 | | | | | IIIB |
| | 1142 | 2213 | SGMR | | | | | | | | | | | | | | |
| | 1402 | 2346 | HARV | | | | | | | | | | | | | | |
| | 2022 | 2400 | BOUL | | | | | | | | | | | | | | |
| | 2145 | 2400 | CULG | | | | | | | | | | | | | | |
| | 2219 | 2313 | MANI | | | | | | | | | | | | | | |
| | 2353 | 2400 | MANI | | | | | | | | | | | | | | |
| 18 | 0000 | 0943 | MANI | | | | | | | | | | | | | | |
| | 0000 | 0100 | BOUL | | | | | | | | | | | | | | |
| | 0000 | 0746 | CULG | | | | | | | | | | | | | | |
| | 0650 | 1602 | DURN | | | | | | | | | | | | | | |
| | 0715 | 0810 | WEIS | | | | | | | | | | | | | | |
| | 0815 | 1608 | WEIS | | | | | | | | | | | | | | |
| | 1141 | 2214 | SGMR | | | | | | | | | | | | | | |
| | 1400 | 2300 | BOUL | | | | | | | | | | | | | | |
| | 1402 | 2346 | HARV | | | | | | | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | | | | | | | |
| | 2219 | 2400 | MANI | | | | | | | | | | | | | | |
| 19 | 0000 | 0943 | MANI | | | | | | | | | | | | | | |
| | 0000 | 0741 | CULG | | | | | | | | | | | | | | |
| | 0648 | 1053 | DURN | | | | | | | | | | | | | | |
| | 0710 | 1508 | WEIS | | | | | | | | | | | | | | |
| | 1137 | 1410 | DURN | | | | | | | | | | | | | | |
| | 1133 | 2215 | SGMR | | | | | | | | | | | | | | |
| | 1330 | 2400 | BOUL | | | | | | | | | | | | | | |
| | 1402 | 2346 | HARV | | | | | | | | | | | | | | |
| | 2046 | 2400 | CULG | | | | | | | | | | | | | | |
| | 2218 | 2400 | MANI | | | | | | | | | | | | | | |
| 20 | 0000 | 0943 | MANI | | | | | | | | | | | | | | |
| | 0000 | 0100 | BOUL | | | | | | | | | | | | | | |
| | 0000 | 0746 | CULG | | | | | | | | | | | | | | |
| | 0715 | 1003 | WEIS | | | | | | | | | | | | | | |
| | 1007 | 1610 | WEIS | | | | | | | | | | | | | | |
| | 1138 | 2217 | SGMR | | | | | | | | | | | | | | |
| | 1330 | 2400 | BOUL | | | | | | | | | | | | | | |
| | 1345 | 2346 | HARV | | | | | | | | | | | | | | |
| | 2046 | 2400 | CULG | | | | | | | | | | | | | | |
| | 2218 | 2400 | MANI | | | | | | | | | | | | | | |
| 21 | 0000 | 0154 | MANI | | | | | | | | | | | | | | |
| | 0000 | 0100 | BOUL | | | | | | | | | | | | | | |
| | 0000 | 0746 | CULG | | | | | | | | | | | | | | |
| | 0300 | 0943 | MANI | | | | | | | | | | | | | | |
| | 0709 | 1610 | WEIS | | | | | | | | | | | | | | |
| | 1045 | 1634 | DURN | | | | | | | | | | | | | | |
| | 1136 | 2218 | SGMR | | | | | | | | | | | | | | |
| | 1346 | 2346 | HARV | | | | | | | | | | | | | | |
| | 1540 | 2400 | BOUL | | | | | | | | | | | | | | |
| | 2046 | 2400 | CULG | | | | | | | | | | | | | | |
| | 2218 | 2400 | MANI | | | | | | | | | | | | | | |
| 22 | 0000 | 0943 | MANI | | | | | | | | | | | | | | |
| | 0000 | 0100 | BOUL | | | | | | | | | | | | | | |
| | 0000 | 0746 | CULG | | | | | | | | | | | | | | |
| | 0645 | 1635 | DURN | | | | | | | | | | | | | | |
| | 0710 | 1120 | WEIS | | | | | | | | | | | | | | |
| | 1136 | 2219 | SGMR | | | | | | | | | | | | | | |
| | 1143 | 1612 | WEIS | | | | | | | | | | | | | | |
| | 1346 | 2346 | HARV | | | | | | | | | | | | | | |
| | 1900 | 2400 | BOUL | | | | | | | | | | | | | | |

# SOLAR RADIO EMISSION
# SPECTRAL OBSERVATIONS

**FEBRUARY 1975**

| FEB DAYS | TIMES OF OBSERVATION START UT | TIMES OF OBSERVATION END UT | STATION | EVENTS: CENTIMETRIC BAND START UT | CENTIMETRIC BAND END UT | CENTIMETRIC BAND INT. | DECIMETRIC BAND START UT | DECIMETRIC BAND END UT | DECIMETRIC BAND INT. | METRIC BAND START UT | METRIC BAND END UT | METRIC BAND INT. | DEKAMETRIC BAND START UT | DEKAMETRIC BAND END UT | DEKAMETRIC BAND INT. | SPECTRAL TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 22 | 2149 | 2400 | CULG | | | | | | | | | | | | | |
| | 2217 | 2400 | MANI | | | | | | | | | | | | | |
| 23 | 0000 | 0940 | MANI | | | | | | | | | | | | | |
| | 0000 | 0100 | BOUL | | | | | | | | | | | | | |
| | 0000 | 0745 | CULG | | | | | | | | | | | | | |
| | 0644 | 1443 | OURN | | | | | | | | | | | | | |
| | 0709 | 1612 | WEIS | | | | | | | | | | | | | |
| | 1133 | 2221 | SGMR | | | | | | | | | | | | | |
| | 1346 | 2251 | HARV | | | | | | | | | | | | | |
| | 1456 | 1635 | OURN | | | | | | | | | | | | | |
| | 1900 | 2400 | BOUL | | | | | | | | | | | | | |
| | 2045 | 2400 | CULG | | | | | | | | | | | | | |
| | 2216 | 2400 | MANI | | | | | | | | | | | | | |
| 24 | 0000 | 0940 | MANI | | | | | | | | | | | | | |
| | 0000 | 0100 | BOUL | | | | | | | | | | | | | |
| | 0000 | 0745 | CULG | | | | | | | | | | | | | |
| | 0642 | 1635 | OURN | | | | | | | | | | | | | |
| | 0710 | 1311 | WEIS | | | | | | | | | | | | | |
| | 1132 | 2222 | SGMR | | | | | | | | | | | | | |
| | 1314 | 1616 | WEIS | | | | | | | | | | | | | |
| | 1330 | 2400 | BOUL | | | | | | | | | | | | | |
| | 1346 | 2246 | HARV | | | | | | | | | | | | | |
| | 2045 | 2400 | CULG | | | | | | | | | | | | | |
| | 2216 | 2400 | MANI | | | | | | | | | | | | | |
| 25 | 0000 | 0940 | MANI | | | | | | | | | | | | | |
| | 0000 | 0100 | BOUL | | | | | | | | | | | | | |
| | 0000 | 0745 | CULG | | | | | | | | | | | | | |
| | 0640 | 1635 | OURN | | | | | | | | | | | | | |
| | 0701 | 1617 | WEIS | | | | | | | | | | | | | |
| | 1130 | 2223 | SGMR | | | | | | | | | | | | | |
| | 1330 | 2400 | BOUL | | | | | | | | | | | | | |
| | 1345 | 2246 | HARV | | | | | | | | | | | | | |
| | 2100 | 2400 | CULG | | | | | | | | | | | | | |
| | 2215 | 2400 | MANI | | | | | | | | | | | | | |
| 26 | 0000 | 0940 | MANI | | | | | | | | | | | | | |
| | 0000 | 0100 | BOUL | | | | | | | | | | | | | |
| | 0000 | 0745 | CULG | | | | | | | | | | | | | |
| | 0639 | 1636 | OURN | | | | | | | | | | | | | |
| | 0701 | 1425 | WEIS | | | | | | | | | | | | | |
| | 1129 | 2224 | SGMR | | | | | | | | | | | | | |
| | 1330 | 2400 | BOUL | | | | | | | | | | | | | |
| | 1346 | 2246 | HARV | | | | | | | | | | | | | |
| | 1430 | 1624 | WEIS | | | | | | | | | | | | | |
| | 2045 | 2400 | CULG | | | | | | | | | | | | | |
| | 2214 | 2400 | MANI | | | | | | | | | | | | | |
| 27 | 0000 | 0941 | MANI | | | | | | | | | | | | | |
| | 0000 | 0100 | BOUL | | | | | | | | | | | | | |
| | 0000 | 0745 | CULG | | | | | | | | | | | | | |
| | 0658 | 1625 | WEIS | | | | | | | 0830.6 | 0832.6 | 2 | | | | IIIG |
| | 0637 | 1636 | OURN | | | | | | | 0831.2 | 0832.5 | 3 | | | | IIIGG |
| | 1127 | 2226 | SGMR | | | | | | | | | | | | | |
| | 1330 | 2400 | BOUL | | | | | | | | | | | | | |
| | 1346 | 2246 | HARV | | | | | | | | | | | | | |
| | 2045 | 2059 | CULG | | | | | | | | | | | | | |
| | 2112 | 2400 | CULG | | | | | | | | | | | | | |
| | 2214 | 2400 | MANI | | | | | | | | | | | | | |
| 28 | 0000 | 0941 | MANI | | | | | | | | | | | | | |
| | 0000 | 0100 | BOUL | | | | | | | | | | | | | |
| | 0000 | 0745 | CULG | | | | | | | | | | | | | |
| | 0637 | 1636 | OURN | | | | | | | | | | | | | |
| | 0658 | 1053 | WEIS | | | | | | | | | | | | | |
| | 1118 | 1628 | WEIS | | | | | | | | | | | | | |
| | 1125 | 2227 | SGMR | | | | | | | | | | | | | |
| | 1330 | 2400 | BOUL | | | | | | | | | | | | | |
| | 1345 | 2246 | HARV | | | | | | | | | | | | | |
| | 2045 | 2400 | CULG | | | | | | | | | | | | | |

The symbols used in connection with the spectral type in describing the important bursts are as follows:

B = Single burst
G = Small group (< 10) of bursts
GG = Large group (> 10) of bursts
C = Underlying continuum (particularly with type I)
S = Storm in the sense of intermittent but apparently connected activity
N = Intermittent activity in this period
U = U-shaped burst of Type III
RS = Reverse slope burst
DP = Drifting pairs
DC = Drifting Chains
H = Herringbone
W = Weak
P = Pulsations
CONT = Continuum
UNCLF = Unclassified activity

# SELECTED SOLAR EVENTS

## FEBRUARY 1975

Culgoora

| UT Date 1975 FEBRUARY | HELIOGRAPH EVENT | | | | | | | Spectral Type | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | Start (UT) | End (UT) | Freq. (MHz) | Positions | | Polarization | Intensity (1-3) | | |
| | | | | Central Dist. ($R_\odot$) | Position Angle (Deg.) | | | | |
| 7/8 | 2300 | 0500 | 160 | 0.7 | 70 | L | 2) | I | |
| | | | 80 | 0.7 | 60 | L | 1) | | |
| 9 | 0021 | 0024 | 160 | 0.3 | 45 | 0 | 1) | $III^G$ | * |
| | | | 80 | 0.5 | 30 | 0 | 2) | | |
| | | | 43.25 | 0.7 | 45 | - | 2) | | |

Days without Heliograph observations: Nil

* Other type IIIs observed at same position during day.

# COSMIC RAY INDICES

## (Neutron Monitors)

### FEBRUARY 1975

| | THULE | ALERT | DEEP RIVER | CALGARY | SULPHUR MT | KIEL | CLIMAX | TOKYO |
|---|---|---|---|---|---|---|---|---|
| FEB 1975 | Average cts/hr | Average cts/hr | Average cts/hr | Average cts/hr | Average cts/hr | Average cts/hr | Average cts/hr | Average cts/hr |
| 1 | 4533.3 | 7444.8 | 6955.4 | 11824.4 | 8868.4 | 6270.2 | 4223.0 | 3558.8 |
| 2 | 4524.7 | 7434.0 | 6952.3 | 11799.6 | 8832.9 | 6245.2 | 4198.3 | 3555.3 |
| 3 | 4530.2 | 7446.7 | 6968.3 | 11831.1 | 8835.4 | 6255.1 | 4206.9 | 3553.4 |
| 4 | 4501.4 | 7397.3 | 6931.7 | 11809.6 | 8809.2 | 6224.4 | 4194.4 | 3525.5 |
| 5 | 4478.2 | 7381.5 | 6908.9 | 11746.4 | 8752.9 | 6213.2 | 4180.1 | 3529.0 |
| 6 | 4502.6 | 7411.6 | 6947.9 | 11770.5 | 8785.2 | 6237.7 | 4185.8 | 3531.9 |
| 7 | 4511.5 | 7429.1 | 6981.0 | 11839.7 | 8860.2 | 6264.2 | 4211.7 | 3540.1 |
| 8 | 4515.9 | 7423.5 | 6997.8 | 11891.2 | 8874.5 | 6261.2 | 4217.4 | 3551.2 |
| 9 | 4524.0 | 7451.9 | 7017.3 | 11895.5 | 8904.4 | 6297.0 | 4237.7 | 3556.8 |
| 10 | 4496.7 | 7417.6 | 6952.3 | 11799.0 | 8843.9 | 6268.3 | 4199.5 | 3561.8 |
| 11 | 4504.2 | 7428.5 | 6929.6 | 11773.6 | 8801.2 | 6267.3 | 4190.0 | 3556.7 |
| 12 | 4460.5 | 7369.5 | 6900.2 | 11709.2 | 8750.0 | 6240.5 | 4156.5 | 3554.0 |
| 13 | 4474.4 | 7385.1 | 6935.7 | 11723.1 | 8790.7 | 6267.0 | 4166.9 | 3547.3 |
| 14 | 4495.3 | 7413.9 | 6932.6 | 11819.1 | 8809.4 | 6294.4 | 4194.8 | 3556.1 |
| 15 | 4514.7 | 7447.6 | 6929.0 | 11791.0 | 8784.9 | 6282.4 | 4203.5 | 3564.9 |
| 16 | 4516.0 | 7453.0 | 6921.3 | 11827.2 | 8816.0 | 6259.6 | 4214.4 | 3562.7 |
| 17 | 4517.0 | 7451.3 | 6918.3 | 11879.4 | 8823.0 | 6265.2 | 4223.7 | 3566.4 |
| 18 | 4526.0 | 7436.2 | 6921.9 | 11878.7 | 8847.1 | 6276.3 | 4224.3 | 3570.8 |
| 19 | 4541.5 | 7472.3 | 6960.2 | 11893.5 | 8863.8 | 6296.9 | 4230.5 | 3573.2 |
| 20 | 4533.2 | 7443.9 | 6976.6 | 11855.4 | 8908.5 | 6283.7 | 4226.1 | 3569.4(21) |
| 21 | 4538.6 | 7467.7 | 6979.2 | 11902.9 | 8822.6 | 6284.6 | 4244.7 | 3544.4(17) |
| 22 | 4519.4 | 7452.3 | 6943.8 | 11891.4 | 8799.6 | 6272.5 | 4216.5 | 3561.2 |
| 23 | 4498.3 | 7425.6 | 6915.1 | 11810.3 | 8782.9 | 6266.4 | 4198.8 | 3570.5 |
| 24 | 4491.9 | 7404.8 | 6906.0 | 11792.9 | 8780.0 | 6248.2 | 4185.6 | 3558.4 |
| 25 | 4511.8 | 7432.4 | 6966.1 | 11802.9 | 8837.4 | 6260.8 | 4205.7 | 3553.7 |
| 26 | 4524.2 | 7459.5 | 6994.1 | 11852.2 | 8877.2 | 6276.3 | 4216.9 | 3552.4 |
| 27 | 4521.8 | 7445.9 | 6998.0 | 11899.4 | 8905.2 | 6294.7 | 4211.2 | 3555.7 |
| 28 | 4511.2 | 7448.7 | 6988.9 | 11857.5 | 8895.9 | 6297.0 | 4201.9 | 3560.3 |
| MEAN | 4511.4 | 7431.3 | 6951.0 | 11827.4 | 8830.8 | 6266.8 | 4206.0 | 3555.1 |

( ) Number of hours for which data are available if less than 24.
Asterisk indicates sum of both sections at Climax is less than 40 hours.

Thule, Alert, Calgary, Sulphur Mountain, Kiel and Climax Scaling Factors = 100.
Deep River Scaling Factor = 300.
Tokyo Scaling Factor = 128.

N: One section normalized by multiplicative factor.
E: One section estimated from sections ratio.

# COSMIC RAY INDICES

(Neutron Monitors)

FEBRUARY 1975

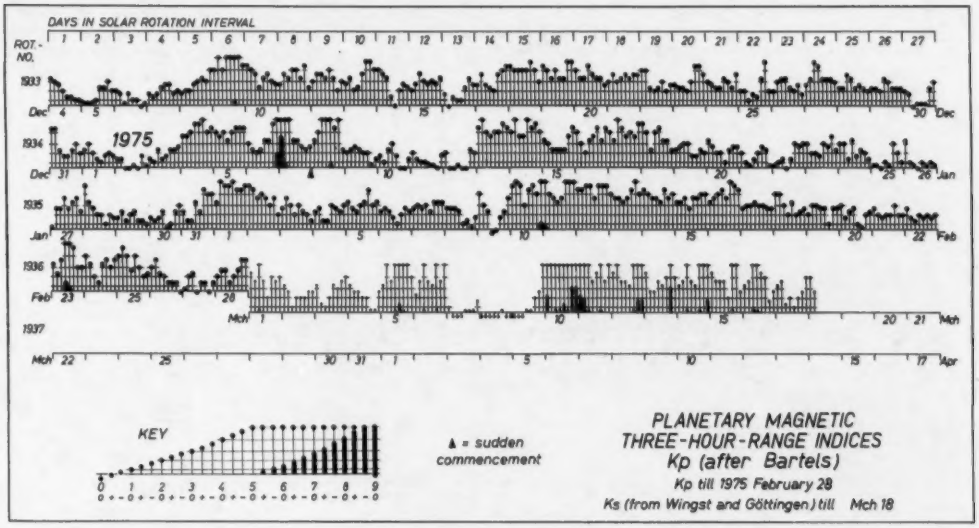
97
Feb 75

# GEOMAGNETIC ACTIVITY INDICES

## FEBRUARY 1975

| Day | Three-Hour Range Indices Kp | | | | | | | | | Prel Ci | Cp | Ap | aa | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Sum | | | | N | S | M | |
| 1 D | 3+ | 5 | 5- | 5- | 5 | 4+ | 4+ | 5- | 36 | 1.4 | 1.4 | 37 | 67 | 49 | 53 | 63 |
| 2 | 5- | 4+ | 4- | 4 | 4- | 3 | 4- | 2 | 29 | 1.0 | 1.1 | 23 | 46 | 43 | 53 | 37 |
| 3 | 3- | 4- | 3 | 2 | 3 | 2+ | 2 | 1+ | 20 | 0.6 | 0.7 | 12 | 20 | 20 | 22 | 19 |
| 4 Q | 2+ | 3- | 1+ | 1+ | 3 | 3- | 2+ | 3 | 19- | 0.4 | 0.6 | 10 | 20 | 15 | 14 | 22 |
| 5 | 3+ | 3- | 2+ | 3 | 3+ | 4+ | 3 | 3+ | 25+ | 0.9 | 0.9 | 17 | 35 | 26 | 22 | 39 |
| 6QQ | 2+ | 3- | 2+ | 2- | 1 | 2 | 3- | 2+ | 17 | 0.3 | 0.5 | 8 | 18 | 14 | 15 | 17 |
| 7 | 3- | 3 | 3- | 3 | 2+ | 3+ | 3+ | 3+ | 24- | 0.8 | 0.8 | 15 | 27 | 23 | 21 | 30 |
| 8QQ | 3- | 3- | 3- | 2+ | 1 | 1+ | 1- | 2- | 15 | 0.3 | 0.4 | 8 | 17 | 12 | 19 | 11 |
| 9 Q | 4 | 3 | 2+ | 0 | 0+ | 2- | 2+ | 4- | 17+ | 0.5 | 0.6 | 11 | 21 | 20 | 20 | 21 |
| 10 D | 5- | 5 | 5- | 3 | 4+ | 5- | 4 | 6- | 36 | 1.4 | 1.4 | 38 | 58 | 56 | 40 | 73 |
| 11 D | 5+ | 4 | 4- | 3+ | 4- | 5 | 5 | 5 | 35 | 1.5 | 1.4 | 36 | 69 | 61 | 39 | 91 |
| 12 D | 4+ | 4+ | 5- | 5- | 4- | 5- | 5- | 5- | 36- | 1.6 | 1.4 | 35 | 57 | 57 | 55 | 59 |
| 13 | 4 | 4- | 4- | 3+ | 4- | 4+ | 5 | 4 | 32- | 1.2 | 1.2 | 27 | 41 | 41 | 30 | 53 |
| 14 | 4+ | 4 | 4- | 4- | 3+ | 4+ | 4- | 4 | 31 | 1.2 | 1.2 | 25 | 40 | 37 | 36 | 42 |
| 15 | 3+ | 3+ | 4- | 3- | 4- | 4- | 4 | 4 | 28+ | 1.1 | 1.1 | 21 | 38 | 29 | 24 | 43 |
| 16 | 3+ | 4- | 4 | 4+ | 4- | 5 | 5- | 4+ | 33 | 1.3 | 1.3 | 30 | 49 | 39 | 34 | 54 |
| 17 | 3- | 3 | 3 | 3+ | 3 | 3 | 3- | 3- | 23+ | 0.8 | 0.8 | 14 | 27 | 25 | 26 | 27 |
| 18 | 4 | 4 | 3 | 2 | 3+ | 2 | 2+ | 3- | 23+ | 0.8 | 0.9 | 15 | 26 | 25 | 25 | 25 |
| 19 Q | 2 | 3 | 3 | 3- | 3- | 1 | 3- | 3- | 20- | 0.6 | 0.6 | 11 | 18 | 17 | 19 | 17 |
| 20QQ | 3 | 2- | 2+ | 3- | 1 | 1- | 2 | 2+ | 16- | 0.5 | 0.4 | 8 | 15 | 17 | 19 | 13 |
| 21 Q | 3- | 2 | 2- | 2 | 2 | 3 | 2 | 2 | 17+ | 0.5 | 0.5 | 8 | 16 | 16 | 14 | 19 |
| 22QQ | 3- | 2- | 1+ | 2 | 2- | 2 | 2- | 2 | 15 | 0.2 | 0.4 | 7 | 15 | 13 | 17 | 12 |
| 23 D | 3+ | 2+ | 4- | 6 | 5+ | 5- | 3 | 3 | 31+ | 1.4 | 1.3 | 32 | 49 | 67 | 65 | 52 |
| 24 | 4 | 3+ | 2 | 1+ | 3+ | 4- | 3 | 4- | 24+ | 0.9 | 0.9 | 17 | 30 | 21 | 20 | 32 |
| 25 | 4 | 5- | 4 | 3- | 4 | 3 | 2 | 2+ | 27- | 1.0 | 1.0 | 20 | 34 | 33 | 40 | 28 |
| 26 Q | 3 | 4- | 2+ | 2 | 1+ | 1+ | 1+ | 0+ | 15+ | 0.4 | 0.5 | 9 | 15 | 16 | 21 | 11 |
| 27QQ | 1- | 2 | 2+ | 0+ | 1+ | 1+ | 0+ | 1+ | 10- | 0.1 | 0.2 | 5 | 10 | 10 | 11 | 10 CC |
| 28 | 2 | 3- | 3- | 1+ | 2 | 3- | 4- | 4- | 21- | 0.6 | 0.7 | 12 | 31 | 15 | 12 | 34 |
| | | | | | | | | | MEAN | 0.83 | 0.86 | 18 | 32.5 | 29.3 | 31.0 | |

# GEOMAGNETIC ACTIVITY INDICES




# DAILY AVERAGE INDICES Ap

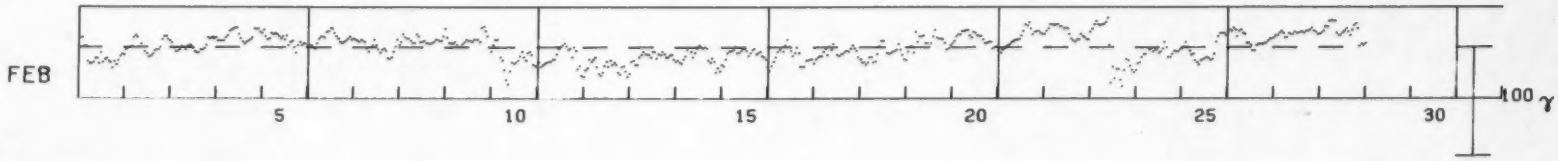
| DAY | 1974 MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | 1975 JAN | FEB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 17 | 9 | 28 | 10 | 6 | 24 | 28 | 6 | 6 | 7 | 37 |
| 2 | 18 | 15 | 18 | 18 | 12 | 22 | 32 | 30 | 5 | 15 | 4 | 23 |
| 3 | 20 | 39 | 24 | 19 | 9 | 35 | 16 | 12 | 6 | 15 | 7 | 12 |
| 4 | 10 | 35 | 34 | 9 | 31 | 24 | 20 | 8 | 3 | 9 | 32 | 10 |
| 5 | 18 | 18 | 35 | 6 | 74 | 21 | 19 | 10 | 5 | 7 | 27 | 17 |
| 6 | 20 | 26 | 6 | 6 | 130 | 20 | 14 | 11 | 10 | 4 | 26 | 8 |
| 7 | 13 | 18 | 15 | 3 | 15 | 22 | 12 | 6 | 7 | 8 | 44 | 15 |
| 8 | 17 | 13 | 13 | 6 | 36 | 16 | 7 | 10 | 21 | 13 | 36 | 8 |
| 9 | 33 | 16 | 11 | 7 | 15 | 16 | 5 | 39 | 39 | 42 | 7 | 11 |
| 10 | 30 | 28 | 3 | 15 | 20 | 16 | 6 | 10 | 10 | 20 | 6 | 38 |
| 11 | 32 | 19 | 5 | 32 | 14 | 10 | 4 | 6 | 48 | 21 | 4 | 36 |
| 12 | 15 | 3 | 5 | 29 | 23 | 5 | 6 | 17 | 70 | 18 | 4 | 35 |
| 13 | 10 | 7 | 4 | 21 | 12 | 6 | 15 | 86 | 36 | 22 | 32 | 27 |
| 14 | 16 | 5 | 10 | 18 | 23 | 5 | 9 | 30 | 38 | 13 | 33 | 25 |
| 15 | 3 | 4 | 30 | 37 | 10 | 4 | 73 | 50 | 10 | 14 | 15 | 21 |
| 16 | 42 | 4 | 26 | 16 | 10 | 6 | 88 | 68 | 16 | 8 | 21 | 30 |
| 17 | 9 | 6 | 38 | 15 | 8 | 6 | 3 | 47 | 14 | 18 | 29 | 14 |
| 18 | 3 | 48 | 24 | 10 | 6 | 10 | 19 | 43 | 8 | 28 | 22 | 15 |
| 19 | 2 | 39 | 18 | 13 | 6 | 40 | 34 | 29 | 14 | 27 | 10 | 11 |
| 20 | 23 | 46 | 18 | 18 | 11 | 46 | 35 | 41 | 22 | 21 | 10 | 8 |
| 21 | 68 | 35 | 18 | 7 | 9 | 39 | 43 | 10 | 24 | 19 | 6 | 8 |
| 22 | 39 | 31 | 22 | 8 | 8 | 37 | 24 | 15 | 18 | 14 | 8 | 7 |
| 23 | 42 | 29 | 25 | 7 | 82 | 36 | 16 | 5 | 16 | 17 | 12 | 32 |
| 24 | 34 | 19 | 39 | 8 | 51 | 26 | 26 | 38 | 26 | 14 | 10 | 17 |
| 25 | 28 | 20 | 14 | 10 | 22 | 13 | 30 | 22 | 19 | 12 | 5 | 20 |
| 26 | 20 | 21 | 11 | 40 | 20 | 7 | 38 | 28 | 17 | 12 | 5 | 9 |
| 27 | 22 | 19 | 14 | 54 | 24 | 18 | 25 | 25 | 9 | 21 | 14 | 5 |
| 28 | 18 | 23 | 10 | 26 | 18 | 20 | 14 | 29 | 6 | 12 | 12 | 12 |
| 29 | 34 | 19 | 7 | 19 | 13 | 31 | 16 | 18 | 3 | 11 | 6 | |
| 30 | 20 | 16 | 17 | 15 | 8 | 17 | 21 | 12 | 2 | 6 | 7 | |
| 31 | 24 | | 30 | | 6 | 21 | | 8 | | 14 | 16 | |
| MEAN | 23 | 21 | 18 | 17 | 24 | 19 | 23 | 26 | 18 | 15 | 16 | 18 |

# HOURLY EQUATORIAL Dst VALUES (PROVISIONAL)

NASA/GODDARD SPACE FLIGHT CENTER

(Time-UT) FEBRUARY 1975 (Units-Gammas)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 9 | 9 | 1 | 1 | -13 | -15 | -15 | -14 | -10 | -10 | -15 | -5 | -14 | -11 | -10 | -13 | -14 | -19 | -13 | -16 | -12 | -8 | -6 | -7 |
| 2 | -2 | -1 | 0 | 1 | 9 | 11 | 9 | 0 | 3 | 0 | -4 | -6 | -9 | -8 | -6 | -3 | -2 | -2 | 0 | 7 | 10 | 10 | 7 | 6 |
| 3 | 4 | -1 | -4 | -4 | -2 | 1 | 0 | -2 | 1 | 2 | 2 | -1 | -4 | -5 | -5 | -2 | -2 | -1 | 2 | 9 | 8 | 9 | 8 | 9 |
| 4 | 6 | 6 | 6 | 6 | 9 | 11 | 15 | 16 | 17 | 18 | 18 | 12 | 8 | 5 | 3 | 5 | 6 | 7 | 9 | 17 | 17 | 17 | 14 | 13 |
| 5 | 16 | 10 | 7 | 8 | 13 | 12 | 13 | 12 | 10 | 8 | 10 | 7 | 11 | 2 | 5 | 6 | 0 | -5 | 2 | 5 | 2 | 4 | 3 | 1 |
| 6 | 2 | 2 | 0 | -1 | 4 | 8 | 10 | 10 | 9 | 14 | 15 | 18 | 17 | 13 | 10 | 8 | 5 | 4 | 5 | 6 | 8 | 10 | 7 | 8 |
| 7 | 7 | 6 | 5 | 7 | 6 | 5 | -1 | -4 | 0 | 2 | 7 | 2 | -2 | -5 | -2 | -1 | -3 | -10 | -11 | -9 | -4 | 1 | 7 | 2 |
| 8 | 5 | 12 | 9 | 8 | 8 | 6 | 4 | 4 | 12 | 10 | 5 | 5 | 6 | 4 | 4 | 3 | 4 | 5 | 7 | 7 | 6 | 6 | 10 | 17 |
| 9 | 9 | 4 | 4 | 3 | 5 | 2 | 0 | 1 | 3 | 5 | 7 | 6 | 6 | 5 | 7 | 7 | 7 | 5 | 18 | 19 | 15 | 10 | 0 | -4 |
| 10 | 2 | 7 | 7 | 0 | -9 | -12 | -21 | -30 | -34 | -22 | -14 | -15 | -14 | -12 | -8 | -4 | -9 | -12 | -5 | -4 | -7 | -16 | -17 | -18 |
| 11 | -14 | -18 | -16 | -15 | -14 | -13 | -13 | -11 | -11 | -6 | -1 | 1 | 2 | 4 | 1 | -2 | -1 | -9 | 0 | -3 | -20 | -17 | -26 | -27 |
| 12 | -21 | -19 | -11 | -13 | -11 | -9 | -18 | -24 | -26 | -23 | -17 | -13 | -18 | -12 | -16 | -14 | -16 | -23 | -25 | -18 | -17 | -22 | -27 | -24 |
| 13 | -13 | -12 | -16 | -16 | -9 | -7 | -4 | -6 | -6 | -7 | -9 | -4 | -4 | -10 | -6 | -7 | -4 | -6 | -9 | -9 | -7 | -7 | -11 | -13 |
| 14 | -12 | -14 | -15 | -11 | -8 | -2 | 0 | -4 | -9 | -5 | -1 | 2 | 0 | -1 | 0 | -1 | -12 | -14 | -10 | -13 | -23 | -19 | -22 | -16 |
| 15 | -17 | -11 | -5 | -3 | -3 | -2 | 1 | -5 | -5 | -3 | -1 | -1 | -3 | -8 | -5 | -2 | -1 | -6 | -5 | -4 | -8 | -9 | -11 | -18 |
| 16 | -22 | -17 | -13 | -9 | -4 | -2 | 0 | -4 | 2 | 7 | 1 | -3 | -8 | -5 | 0 | -5 | -18 | -18 | -18 | -12 | -12 | -11 | -11 | -15 |
| 17 | -11 | -9 | -8 | -8 | -4 | -1 | -7 | 1 | -2 | 3 | 0 | -7 | -8 | -6 | -6 | -4 | -3 | -4 | -1 | 2 | -1 | -3 | -9 | -11 |
| 18 | -14 | -14 | -16 | -14 | -9 | -9 | -14 | -13 | -6 | 1 | 6 | 6 | 0 | -5 | -6 | -5 | -4 | -3 | -2 | 3 | -2 | -7 | -11 | -12 |
| 19 | -4 | 1 | 1 | -5 | 14 | 5 | 10 | 10 | 11 | 4 | 4 | 0 | 4 | 10 | 16 | 9 | 8 | 8 | 7 | 4 | -2 | -1 | 2 | 4 |
| 20 | 6 | 10 | 12 | 12 | 15 | 15 | 16 | 16 | 11 | 9 | 14 | 13 | 11 | 10 | 10 | 7 | 4 | 4 | 5 | 5 | -1 | 0 | 1 | -3 |
| 21 | -5 | -2 | -1 | 1 | 2 | 3 | 5 | 6 | 7 | 7 | 8 | 11 | 15 | 21 | 20 | 23 | 17 | 12 | 14 | 15 | 15 | 13 | 12 | 12 |
| 22 | 15 | 17 | 21 | 21 | 20 | 21 | 21 | 19 | 19 | 17 | 18 | 17 | 12 | 8 | 6 | 5 | 7 | 7 | 12 | 10 | 9 | 7 | 7 | 14 |
| 23 | 17 | 21 | 24 | 21 | 20 | 21 | 21 | 23 | 27 | 2 | -33 | -18 | -29 | -20 | -20 | -30 | -36 | -21 | -11 | -12 | -17 | -21 | -23 | -21 |
| 24 | -15 | -14 | -9 | -6 | -6 | 0 | -2 | -1 | -4 | -2 | -2 | -5 | -4 | -1 | 5 | 0 | -9 | -9 | -6 | -3 | -4 | -4 | -2 | -1 |
| 25 | 1 | 5 | 0 | -3 | -7 | -6 | -12 | -14 | -16 | -12 | -11 | -10 | -9 | -10 | -12 | -11 | -6 | 5 | 10 | 13 | 13 | 13 | 11 | 14 |
| 26 | 16 | 15 | 18 | 16 | 10 | 15 | 16 | 13 | 12 | 4 | 4 | 2 | -3 | -3 | 2 | 3 | 3 | 3 | 4 | 4 | 6 | 8 | 8 | 9 |
| 27 | 11 | 11 | 13 | 15 | 13 | 9 | 9 | 13 | 12 | 12 | 14 | 13 | 13 | 14 | 14 | 13 | 15 | 15 | 16 | 18 | 15 | 14 | 12 | 12 |
| 28 | 13 | 15 | 19 | 19 | 24 | 25 | 24 | 24 | 13 | 11 | 11 | 13 | 15 | 17 | 14 | 11 | 16 | 20 | 22 | 17 | 1 | 3 | 2 | 4 |



# PRINCIPAL MAGNETIC STORMS

**FEBRUARY 1975**

| OBS. 2 letter IAGA code | GEOMAG-NETIC LATI-TUDE | COMMENCEMENT DAY | hr min (UT) | TYPE | SC - AMPLITUDES D(') | H(γ) | Z(γ) | MAXIMUM 3 HOUR - INDEX K DAY(3 HOUR PERIOD) | K | RANGES D(') | H(γ) | Z(γ) | UT END DAY | HOUR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EB | 43.9N | 31 | 15-- | .. | .. | .. | .. | 31(6,7) 01(7,8) 02(1,7) | 5 | 123 | 109 | 48 | 02 | 21 |
| HR | 33.7S | 31 | 09-- | .. | .. | .. | .. | 31(6) 01(4,8) | 5 | 26 | 111 | 69 | 02 | 15 |
| WI | 54.2N | 1 | 01-- | .. | .. | .. | .. | 01(5,6,7,8) 02(1,7) | 5 | 27 | 205 | 50 | 02 | 21 |
| GU | 4.0N | 1 | 0006 | .. | .. | .. | .. | 01(1) | 4 | 0 | 100 | 30 | 02 | 18 |
| HU | 0.6S | 1 | 0010 | .. | .. | .. | .. | 01(5,6) | 5 | 8 | 189 | 38 | 01 | 24 |
| PM | 18.7S | 1 | 00-- | .. | .. | .. | .. | 01(4) | 5 | 10 | 90 | 50 | 02 | 18 |
| CO | 64.6N | 9 | 16-- | .. | .. | .. | .. | 12(3) | 8 | 246 | 1930 | 840 | 16 | 21 |
| SI | 60.0N | 9 | 15-- | .. | .. | .. | .. | 12(4) | - | -- | -- | 500 | 17 | 16 |
| NE | 55.1N | 9 | 1540 | .. | .. | .. | .. | 10(2) 12(3) | 6 | 47 | 171 | 224 | 17 | 12 |
| WI | 54.2N | 9 | 22-- | .. | .. | .. | .. | 11(6,7) | 7 | 38 | 250 | 85 | 16 | 24 |
| BD | 48.9N | 9 | 21-- | .. | .. | .. | .. | 10(2) | 6 | 30 | 135 | 55 | 17 | 16 |
| EB | 43.9N | 9 | 18-- | .. | .. | .. | .. | 11(6,7) | 6 | 155 | 128 | 71 | 17 | 01 |
| IR | 41.0N | 9 | 15-- | .. | .. | .. | .. | 10(5) 11(6,7) 12(4) | 6 | 23 | 123 | 36 | 15 | 07 |
| TU | 40.4N | 9 | 21-- | .. | .. | .. | .. | 10(1,2,3,8) 11(1) 12(4) 16(4) | 5 | 15 | 110 | 20 | 17 | 15 |
| HY | 7.6N | 9 | 1600 | .. | .. | .. | .. | 11(6,7) | 6 | 3 | 87 | 21 | 13 | 01 |
| GU | 4.0N | 9 | 2209 | .. | .. | .. | .. | 10(5) | 5 | 0 | 120 | 10 | 10 | 19 |
| HU | 0.6S | 9 | 1906 | .. | .. | .. | .. | 11(6,7) | 5 | 10 | 210 | 40 | 16 | 21 |
| PM | 18.7S | 9 | 1539 | SC | 0 | + 2 | + 1 | 10(5) 12(4) | 5 | 6 | 110 | 40 | 20 | 13 |
| HR | 33.7S | 9 | 19-- | .. | .. | .. | .. | 10(8) 11(6,7) 12(7) 13(7) 16(6) | 5 | 28 | 100 | 108 | 17 | 02 |
| GN | 43.2S | 9 | 1539 | SC | - 1 | + 5 | - 4 | 11(6,7) 16(6) | 6 | 22 | 100 | 130 | 16 | 21 |
| TO | 47.7S | 9 | 1539 | SC* | - 1.2* | + 8 | + | 10(5) 11(6,7) 12(3,4) | 5 | 23 | 150 | 60 | 12 | 19 |
| KG | 56.5S | 9 | 16-- | .. | .. | .. | .. | 11(6,7) | 6 | -- | -- | -- | 14 | 05 |
| GU | 4.0N | 12 | 0430 | .. | .. | .. | .. | 12(4) | 5 | 0 | 60 | 10 | 12 | 19 |
| IR | 41.0N | 15 | 08-- | .. | .. | .. | .. | 15(5) 16(4,5,6,7) | 5 | 10 | 77 | 28 | 16 | 20 |
| HU | 0.6S | 21 | 1300 | .. | .. | .. | .. | 21(6) | 6 | 6 | 200 | 37 | 21 | 21 |
| HY | 7.6N | 22 | 2335 | SC | - 0.3 | + 7 | - 1 | 23(4) | 7 | 5 | 196 | 15 | 23 | 20 |
| CO | 64.6N | 23 | 06-- | .. | .. | .. | .. | 23(4) | 8 | 307 | 2400 | 1280 | 23 | 20 |
| SI | 60.0N | 23 | 06-- | .. | .. | .. | .. | 23(8) | - | -- | -- | 920 | 23 | 22 |
| NE | 55.1N | 23 | 0539 | .. | .. | .. | .. | 23(5) | 6 | 50 | 436 | 307 | 24 | 06 |
| WI | 54.2N | 23 | 08-- | .. | .. | .. | .. | 23(4,5,6) 24(8) | 5 | 25 | 185 | 45 | 25 | 07 |
| BD | 48.9N | 23 | 06-- | .. | .. | .. | .. | 23(4) | 6 | 23 | 110 | 80 | 24 | 09 |
| EB | 43.9N | 23 | 08-- | .. | .. | .. | .. | 23(4,5) | 5 | 91 | 102 | 62 | 24 | 04 |
| IR | 41.0N | 23 | 0830 | SC* | 2.0 | 17 | 2 | 23(4,5) | 7 | 32 | 156 | 66 | 23 | 21 |
| AL | 9.5N | 23 | 0825 | SC | - | 13 | - | 23(4) | 7 | 3 | 194 | 16 | 23 | 19 |
| HY | 7.6N | 23 | 0827 | SC | + 0.3 | +12 | - 1 | -- | - | -- | -- | -- | -- | -- |
| GU | 4.0N | 23 | 0614 | .. | .. | .. | .. | 23(4) | 6 | 0 | 140 | 20 | 23 | 20 |
| AN | 1.5N | 23 | 0825 | SC | - 0.5 | 22 | 5 | -- | - | 3 | 198 | 74 | 23 | 19 |
| HU | 0.6S | 23 | 0826 | .. | .. | .. | .. | 23(5,6) | 5 | 6 | 241 | 29 | 23 | 22 |
| TV | 1.1S | 23 | 0825 | SC | 0.0 | 25 | 28 | -- | - | 2 | 175 | 125 | 23 | 19 |
| PM | 18.7S | 23 | 0826 | SC | 0 | +14 | +12 | 23(4) | 6 | 9 | 140 | 70 | 26 | 16 |
| HR | 33.7S | 23 | 07-- | .. | .. | .. | .. | 23(4) | 6 | 23 | 124 | 70 | 23 | 20 |
| GN | 43.2S | 23 | 06-- | .. | .. | .. | .. | 23(4,5,6) | 6 | 25 | 130 | 180 | 25 | 18 |
| TO | 47.7S | 23 | 0828 | SC | + 0.8 | +29 | + 3 | 23(4) | 7 | 42 | 190 | 70 | 23 | 18 |
| HY | 7.6N | 24 | 0900 | .. | .. | .. | .. | 25(2) | 4 | 3 | 92 | 12 | 26 | 19 |
| HY | 7.6N | 28 | 1300 | .. | .. | .. | .. | 28(7) | 4 | 3 | 70 | 8 | 01 | 22 |

Reports were received from the following observatories:

College Newport Fredericksburg Tucson Honolulu Hyderabad Annamalainagar Trivandrum Gnangara
Sitka Witteveen Boulder San Juan Alibag Guam Huancayo Hermanus Port-aux-Francais

# SUDDEN COMMENCEMENTS AND SOLAR FLARE EFFECTS

## FEBRUARY 1975

PRELIMINARY REPORT ON RAPID MAGNETIC VARIATIONS (by Dr. A. Romana)

The meaning of the station symbols is given in the IAGA-Bulletins nr. 12 and 32. Times of ssc and si are mean values. If given by ten or more stations they are underlined.

Sudden commencements followed by a magnetic storm or a period of storminess (ssc)

23 0827 B: PE LM;C: KA SS PP (bp: B: KG)

Sudden impulses found in the magnetograms (si)

n o n e

Solar-flare effects (sfe)

Effects confirmed by ionospheric or solar observations are underlined.

08 1629 - 1647 CF SS PP? (ssc: B: TN - si: A: LG HU)
20 1237 - 1248 SZ
21 1624 - 1636 TN
21 1640 - 1700 LG

Erratum: In the December list of sfe's, published in Solar-Geophysical Data, 366 - Part I, page 110, February 1975, replace 28 1745 - 1755 LG with 28 1105 - 1115 LG.

# RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

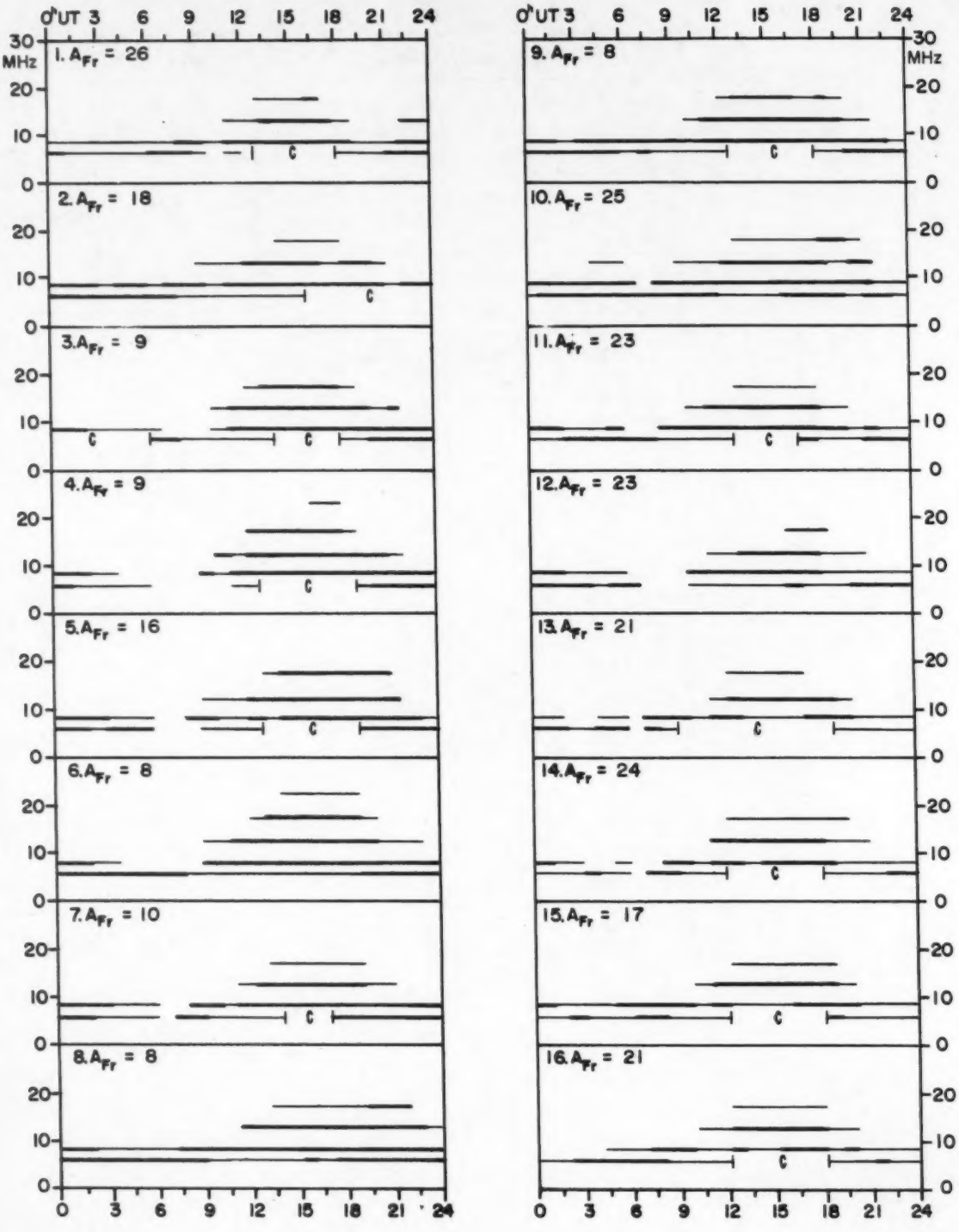
## FEBRUARY 1975

North Atlantic

| FEB 1975 | WHOLE DAY INDICES NORTH ATLANTIC | ADVANCE FORECASTS (JC-REPORTS) FOR WHOLE DAY | NORTH ATLANTIC | | | | | | | | GEOMAGNETIC INDICES | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 6-HOURLY QUALITY FIGURES | | | | SHORT-TERM FORECASTS ISSUED ABOUT ONE HOUR IN ADVANCE OF | | | | $K_{FR}$ | | $A_{FR}$ |
| | | | 00 TO 06 | 06 TO 12 | 12 TO 18 | 18 TO 24 | 02 | 08 | 14 | 20 | HALF DAY (1) | HALF DAY (2) | OBSERVED |
| 01 | 5+ | 5 | 5+ | 5o | 5o | 5+ | 5 | 5 | 4 | 5 | (4 ) | (4 ) | 26 |
| 02 | 5+ | 5 | 5+ | 4+ | 6- | 6- | 5 | 4 | 5 | 4 | (4 ) | 2 | 18 |
| 03 | 6- | 4 | 6- | 5o | 6- | 6- | 5 | 5 | 5 | 5 | 3 | 2 | 9 |
| 04 | 6- | 4 | 6- | 5+ | 6- | 6- | 5 | 5 | 5 | 5 | 2 | 2 | 9 |
| 05 | 5+ | 4 | 5o | 5o | 6- | 6o | 5 | 5 | 5 | 5 | 3 | 3 | 16 |
| 06 | 6- | 6 | 6o | 5o | 6- | 6- | 5 | 5 | 5 | 6 | 2 | 2 | 8 |
| 07 | 5+ | 6 | 6- | 5- | 5+ | 5+ | 6 | 5 | 6 | 6 | 3 | 2 | 10 |
| 08 | 6- | 6 | 5- | 6o | 7- | 6- | 6 | 6 | 5 | 5 | 3 | 1 | 8 |
| 09 | 6o | 5 | 5+ | 5- | 7o | 6+ | 6 | 5 | 6 | 5 | 2 | 2 | 8 |
| 10 | 5+ | 5 | 5+ | 5- | 6- | 6- | 5 | 5 | 5 | 5 | (4 ) | (4 ) | 25 |
| 11 | 6- | 5 | 5+ | 6- | 6o | 6- | 5 | 5 | 5 | 5 | (4 ) | (4 ) | 23 |
| 12 | 5+ | 5 | 6- | 5o | 5+ | 5o | 5 | 5 | 3 | 5 | (4 ) | 3 | 23 |
| 13 | 5o | 5 | 5- | 5o | 5+ | 5- | 5 | 5 | 5 | 5 | (4 ) | (4 ) | 21 |
| 14 | 5o | 5 | 5- | 5o | 5+ | 5o | 5 | 4 | 4 | 5 | (4 ) | (4 ) | 24 |
| 15 | 5+ | 5 | 5o | 5o | 6- | 5o | 5 | 5 | 4 | 5 | 3 | 3 | 17 |
| 16 | 5o | 6 | 4+ | 5o | 5o | 5+ | 5 | 5 | 5 | 5 | (4 ) | (4 ) | 21 |
| 17 | 5+ | 6 | 5+ | 5o | 6- | 5+ | 5 | 5 | 5 | 5 | 3 | 2 | 12 |
| 18 | 5+ | 6 | 5+ | 5o | 5+ | 6- | 5 | 5 | 5 | 5 | 3 | 2 | 14 |
| 19 | 6- | 6 | 5+ | 5o | 6- | 6o | 5 | 5 | 5 | 6 | 3 | 2 | 9 |
| 20 | 5+ | 5 | 5+ | 4+ | 6o | 6+ | 5 | 5 | 5 | 6 | 2 | 1 | 6 |
| 21 | 6- | 6 | 6o | 4+ | 6o | 6+ | 6 | 5 | 5 | 6 | 2 | 2 | 8 |
| 22 | 6- | 6 | 6+ | 4o | 6+ | 7- | 6 | 6 | 6 | 6 | 2 | 2 | 6 |
| 23 | 5+ | 6 | 7- | 4o | 5+ | 5o | 6 | 6 | 4 | 4 | (4 ) | 3 | 26 |
| 24 | 5- | 6 | 4+ | 4+ | 5+ | 5+ | 5 | 4 | 5 | 5 | 2 | 3 | 14 |
| 25 | 5o | 6 | 5+ | 4o | 5o | 5o | 5 | 5 | 5 | 5 | 3 | 3 | 16 |
| 26 | 5o | 6 | 5o | 4o | 6- | 6- | 5 | 5 | 5 | 5 | 3 | 1 | 8 |
| 27 | 5+ | 5 | 6- | 4o | 6o | 6o | 5 | 5 | 6 | 6 | 2 | 1 | 5 |
| 28 | 6- | 5 | 6- | 5o | 6o | 6+ | 6 | 6 | 6 | 6 | 3 | 3 | 11 |

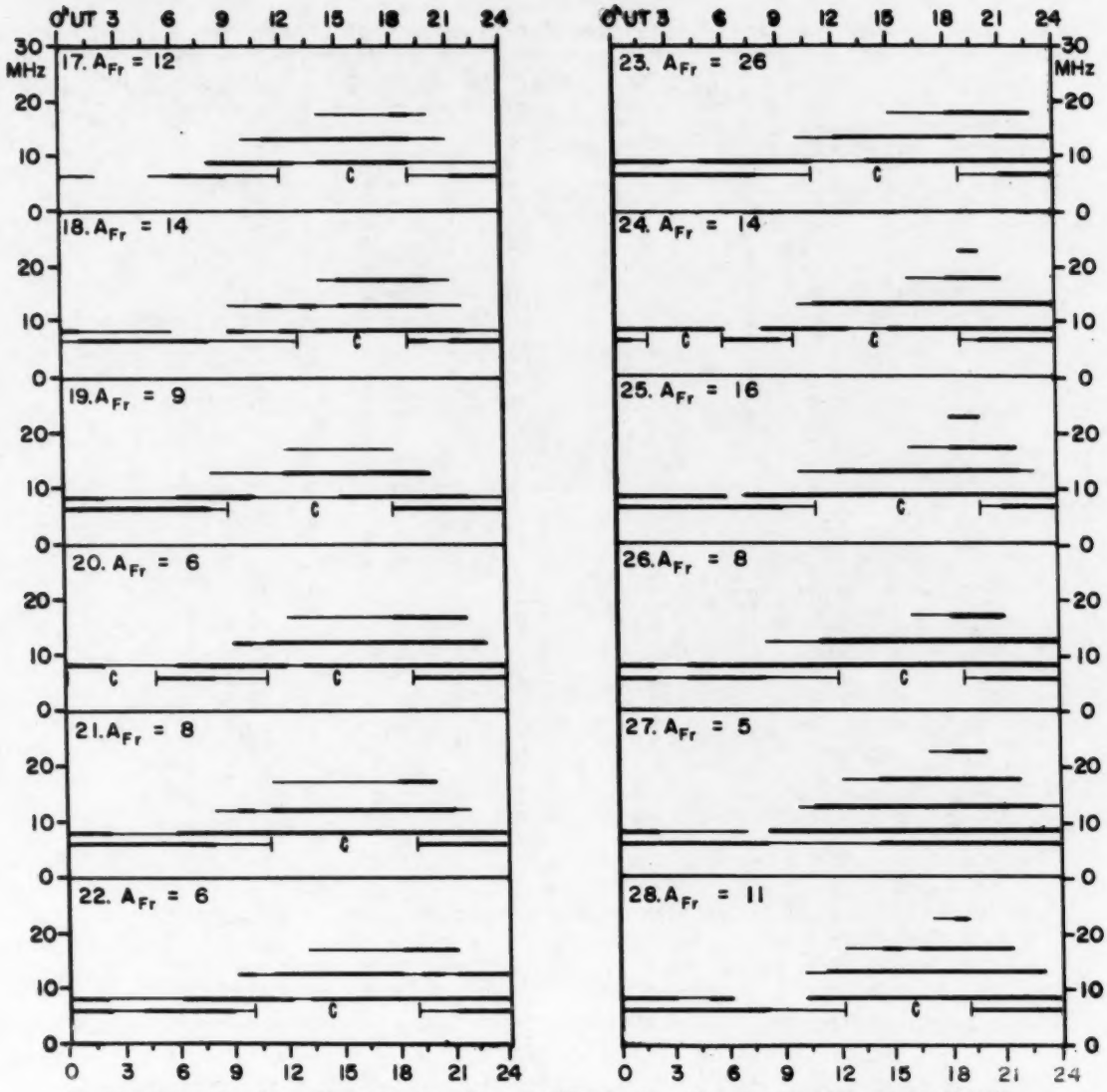
# TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

## FEBRUARY 1975



# TRANSMISSION FREQUENCY RANGES – NORTH ATLANTIC PATH

## FEBRUARY 1975




Field strengths from five frequencies, 6.425, 8.542, 12.813, 17.084 and 22.378 MHz, observed on a Lüchow - Halifax circuit are represented above. Heavy solid lines represent field strengths ≥-12 dB above 1 μv/m (transmitter power reduced to 1 kW). Observed field strengths between -12 dB above 1 μv/m and -40 dB above 1 μv/m are represented by the fine line.

Adapted from Observations by Deutsche Bundespost

# RADIO PROPAGATION QUALITY INDICES

## FEBRUARY 1975

Quality Indices calculated for reception at Lüchow

| DATE | TOKYO | HALIFAX | MAURITIUS | CANBERRA | BRACKNEL |
|---|---|---|---|---|---|
| 1 | 4.6 | 5.0 | 5.6 | 2.8 | 10.1 |
| 2 | 3.8 | 5.4 | 6.3 | 3.2 | 10.9 |
| 3 | 4.9 | 5.6 | 5.8 | 3.4 | 11.0 |
| 4 | 5.8 | 5.1 | 5.8 | 3.9 | 11.6 |
| 5 | 6.1 | 6.2 | 5.4 | 3.8 | 12.1 |
| 6 | 5.4 | 6.4 | 5.7 | 3.5 | 11.5 |
| 7 | 5.4 | 5.4 | 5.0 | 3.6 | 11.0 |
| 8 | 5.9 | 6.8 | 4.5 | 3.9 | 11.3 |
| 9 | 6.0 | 6.8 | 3.9 | 4.2 | 11.4 |
| 10 | 6.6 | 6.2 | 5.1 | 3.4 | 10.7 |
| 11 | 5.2 | 5.9 | 4.7 | 3.5 | 10.8 |
| 12 | 4.8 | 4.1 | 4.4 | 3.8 | 10.8 |
| 13 | 4.3 | 3.8 | 5.0 | 3.2 | 10.1 |
| 14 | 3.3 | 4.1 | 4.3 | 3.2 | 9.8 |
| 15 | 3.1 | 4.4 | 3.7 | 3.2 | 9.0 |
| 16 | 4.1 | 3.3 | 4.6 | 3.0 | 8.1 |
| 17 | 4.5 | 5.0 | 4.9 | 3.2 | 9.3 |
| 18 | 4.9 | 5.0 | 5.3 | 3.3 | 10.6 |
| 19 | 4.5 | 5.6 | 5.6 | 2.8 | 9.6 |
| 20 | 4.7 | 6.3 | 4.9 | 3.7 | 10.2 |
| 21 | 5.2 | 5.8 | 5.2 | 3.9 | 10.9 |
| 22 | 7.4 | 6.0 | 5.7 | 3.6 | 10.5 |
| 23 | 6.9 | 5.7 | 5.7 | 3.7 | 10.8 |
| 24 | 6.9 | 6.5 | 6.0 | 3.4 | 10.7 |
| 25 | 5.1 | 5.5 | 6.0 | 3.9 | 11.9 |
| 26 | 6.6 | 6.1 | 5.2 | 3.9 | 11.3 |
| 27 | 5.4 | 7.4 | 5.0 | 3.7 | 11.2 |
| 28 | 5.9 | 7.8 | 5.7 | 4.5 | 12.6 |

The method of calculation of the radio propagation indices changed in July 1974. An absolute quality figure is calculated for a 24-hour period from Tokyo, Halifax, Mauritius (Africa) and Canberra. The figure 0.0 corresponds to a median field strength of -30 dB above 1μV/m (converted into 1 kW and referred to an omnidirectional antenna). The figures 1 to 10 are in steps of 5 dB with the figure 10.0 corresponding to a median field strength of +20 dB above 1μV/m. The field strength of the frequency with the highest value for each hour is used in place of a mean of all recorded frequencies. This is done on the assumption that the optimum frequency would be used for communication.

USCOMM-NOAA-ASHEVILLE--4-30-75--950

AMERICAN REVOLUTION BICENTENNIAL
1776-1976

April 1975 Number 368-Part II

# Solar-Geophysical Data comprehensive reports

Data for October 1974–September 1974 & Miscellanea

Explanation of Data Reports Issued as Number 366 (Supplement) February 1975

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / ASHEVILLE, N.C.

U.S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
Robert M. White. Administrator

ENVIRONMENTAL DATA SERVICE
Thomas S. Austin, Director

# Solar - Geophysical Data

NO. 368 APRIL 1975

## Part II (Comprehensive Reports)

DATA FOR
OCTOBER 1974
SEPTEMBER 1974
& MISCELLANEA

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

For obtaining bulletins on a data exchange basis, send request to: World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, Colorado 80302.

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# SOLAR - GEOPHYSICAL DATA

No. 368

Issued in two parts

Hope I. Leighton, Editor

J. Virginia Lincoln, Director
Solar - Terrestrial Data Services Division

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SGD 368 Part II (Comprehensive)

# OCTOBER 1974 DATA

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# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH HG. | MAX. INT. % | |
| | 01 | 0133 | 0135 | NO FLARE PATROL | | | | | | | | | | | | | | | | |
| | 01 | 0145 | 0153 | NO FLARE PATROL | | | | | | | | | | | | | | | | |
| | 01 | 0245 | 0248 | NO FLARE PATROL | | | | | | | | | | | | | | | | |
| GRP61314 | 01 | 0623 | 0632 | 0626 | S07 | E43 | .708 | 13263 | 4.5 | | 9 | --F | | | | .70 | | | | 3 3 3 3 |
| TACH | 01 | 0622 | 0634 | 0626 | S07 | E44 | .719 | 13263 | 4.6 | | 12 | -N | | C | 0626 | .88 | 1.29 | | 51 | D |
| ATHN | 01 | 0622 | 0629 | 0624 | S09 | E42 | .704 | 13263 | 4.4 | | 7 | -F | 1 | | 0624 | .34 | .41 | | | |
| ATHN | 01 | 0622 | 0640 | 0624 | S08 | E42 | .700 | 13263 | 4.4 | | 18 | -F | 3 | C | | .33 | | | | F |
| ABST | 01 | 0625 | 0633 | 0628 | S07 | E42 | .696 | 13263 | 4.4 | | 8 | -F | | C | 0628 | .87 | 1.20 | | | D |
| GRP61315 | 01 | 0750 | 0808 | 0752 | S09 | E41 | .692 | 13263 | 4.4 | | 18 | --F | | | | .57 | | | | 3 3 3 4 |
| HTPR | 01 | 0748 | 0800 | 0753 | S08 | E41 | .688 | 13263 | 4.4 | | 12 | -F | | C | 0753 | .31 | .40 | | | |
| ATHN | 01 | 0748 | 0757 | 0750 | S11 | E40 | .689 | 13263 | 4.3 | | 19 | -F | 1 | | 0750 | .52 | .55 | | | |
| ATHN | 01 | 0748 | 07570 | 0751 | S09 | E41 | .692 | 13263 | 4.4 | | 90 | -F | 3 | C | | .50 | | | | DE |
| ABST | 01 | 0753 | 0815 | 0754 | S08 | E42 | .700 | 13263 | 4.5 | | 22 | -F | | C | 0754 | .87 | 1.20 | | | E |
| 5 STATIONS REPORTING GROUP 61316. 0 STATIONS OBSERVING AND NOT REPORTING. | | | | | | | | | | | | | | | | | | | | |
| GRP61316 | 01 | 0806 | 0824 | 0808 | S06 | E37 | .630 | 13263 | 4.1 | | 18 | -F | | | | .77 | | | | 3 3 3 5 |
| HTPR | 01 | 0805 | 0822 | 0807 | S07 | E36 | .622 | 13263 | 4.0 | | 17 | -F | | C | 0807 | .21 | .30 | | | |
| MONT | 01 | 0805 | 0825 | 0809 | S07 | E39 | .659 | 13263 | 4.3 | | 19 | -N | | C | 0809 | .80 | | | | E |
| ABST | 01 | 0807 | 0825 | 0809 | S05 | E35 | .600 | 13263 | 4.0 | | 19 | -F | | C | 0809 | 1.31 | 1.70 | | | E |
| 61316 | 01 | 0815 | 0830 | 0820 | S06 | E36 | .617 | 13263 | 4.0 | | 15 | +-N | | | | .97 | | | | 2 2 2 5 |
| ARCE | 01 | 0810E | 08300 | | S06 | E37 | .630 | 13263 | 4.1 | | 200 | -N | | C | 0820 | .81 | 1.00 | | | |
| CATA | 01 | 0820 | 0830 | 0820 | S06 | E35 | .604 | 13263 | 4.0 | | 10 | -N | 3 | | 0820 | 1.12 | 1.45 | 1.95 | | |
| GRP61317 | 01 | 1101 | 1106 | 1102 | S08 | E32 | .576 | 13263 | 3.9 | | 5 | --F | | | | .28 | | | | 2 2 2 4 |
| TEHR | 01 | 1100 | 1108 | 1101 | S08 | E35 | .614 | 13263 | 4.1 | | 8 | -N | 3 | C | | .36 | | | | |
| MONT | 01 | 1101 | 1104 | 1103 | S07 | E29 | .530 | 13263 | 3.6 | | 3 | -F | | C | 1103 | .20 | | | | |
| GRP61318 | 01 | 1110 | 1119 | 1114 | S06 | E32 | .565 | 13263 | 3.9 | | 9 | --F | | | | .56 | | | | 2 2 2 4 |
| ATHN | 01 | 1109 | 1118 | 1113 | S07 | E29 | .530 | 13263 | 3.6 | | 9 | -F | 3 | C | | .66 | | | | F H |
| TEHR | 01 | 1110 | 1120 | 1114 | S05 | E35 | .600 | 13263 | 4.1 | | 10 | -N | 3 | C | | .45 | | | | F |
| 319 MEUD | 01 | 1259 | 1307 | 1301 | N12 | E29 | .486 | 13262 | 3.7 | | 8 | --F | | C | 1301 | 1.03 | 1.10 | | | E 2 |
| | 01 | 1340 | 1344 | NO FLARE PATROL | | | | | | | | | | | | | | | | |
| | 01 | 1429 | 1436 | NO FLARE PATROL | | | | | | | | | | | | | | | | |
| GRP61320 | 01 | 1746 | 1754 | 1749 | N13 | E26 | .444 | 13262 | 3.7 | | 8 | --F | | | | .24 | | | | 2 2 2 3 |
| PALE | 01 | 1746E | 1752 | 1748U | N12 | E27 | .456 | 13262 | 3.8 | | 60 | -F | 3 | C | | .27 | | | | F |
| BOUL | 01 | 1746 | 1755 | 1749 | N13 | E25 | .429 | 13262 | 3.6 | | 9 | -F | | C | 1749 | .21 | .24 | | | |
| GRP61321 | 01 | 2052 | 2057 | 2055 | S05 | E23 | .435 | 13263 | 3.6 | | 5 | --F | | | | .47 | | | | 2 2 2 3 |
| BOUL | 01 | 2050 | 2058 | 2054U | S05 | E23 | .435 | 13263 | 3.6 | | 8 | -F | | C | 2054 | .43 | .46 | | | |
| HUAN | 01 | 2054 | 2056 | 2055 | S04 | E23 | .428 | 13263 | 3.6 | | 2 | -F | 1 | C | 2055 | .50 | .57 | | | |
| 322 MANI | 02 | 0101 | 0142 | 0107 | N07 | E22 | .372 | 13262 | 3.7 | | 41 | --N | 2 | | 0107 | .62 | .67 | | | 1 |
| 323 MANI | 02 | 0107 | 0118 | 0110 | S07 | E30 | .543 | 13263 | 4.3 | | 11 | --F | 2 | | 0110 | .31 | .37 | | | 1 |
| 324 PALE | 02 | 0214E | 02150 | 0214U | N12 | E08 | .165 | 13262 | 2.7 | | 10 | --F | 2 | 1 | | .19 | | | | DE 3 |
| 325 PALE | 02 | 0220E | 0231 | 0225 | N01 | W39 | .633 | 13268 | 27.2 | | 110 | --F | 3 | C | | .19 | | | | 2 |
| GRP61326 | 02 | 0603 | 0706 | 0632 | N14 | E19 | .343 | 13262 | 3.7 | | 63 | --F | | | | .58 | | | | 2 2 2 4 |
| ABST | 02 | 0603 | 0700 | 0632 | N16 | E17 | .327 | 13262 | 3.5 | | 57 | -F | | C | 0632 | .87 | .90 | | | FK |
| TEHR | 02 | 0628 | 0711 | 0632 | N11 | E20 | .346 | 13262 | 3.6 | | 43 | -N | 3 | C | | .28 | | | | F H |
| GRP61330 | 02 | 1414 | 1435 | 1420 | N13 | E14 | .262 | 13262 | 3.6 | | 21 | --F | | | | .35 | | | | 3 3 3 6 |
| BOUL | 02 | 1412 | 1435 | 1421 | N13 | E14 | .262 | 13262 | 3.6 | | 24 | -F | | C | 1421 | .32 | .33 | | | |
| ATHN | 02 | 1414 | 1433 | 1419 | N12 | E15 | .271 | 13262 | 3.7 | | 19 | -N | 4 | C | | .33 | | | | DE |
| HUAN | 02 | 1417 | 14220 | | N13 | E14 | .262 | 13262 | 3.6 | | 50 | -F | 1 | F | 1420 | .40 | .43 | | | |
| 332 BOUL | 02 | 1838 | 1843 | 1841 | N10 | E15 | .262 | 13262 | 3.9 | | 11 | --F | | C | 1841 | .32 | .33 | | | 3 |
| GRP61333 | 02 | 2019 | 2036 | 2022 | N13 | E11 | .217 | 13262 | 3.7 | | 17 | --F | | | | .52 | | | | 2 2 2 2 |
| BOUL | 02 | 2018 | 2039 | 2021 | N12 | E11 | .209 | 13262 | 3.7 | | 21 | -F | | C | 2021 | .64 | .65 | | | |
| HUAN | 02 | 2020 | 2032 | 2022 | N13 | E11 | .217 | 13262 | 3.7 | | 12 | -N | 1 | C | 2022 | .40 | .42 | | | |
| 334 BOUL | 02 | 2138 | 2203 | 2142 | N10 | E13 | .230 | 13262 | 3.9 | | 25 | --F | | C | 2142 | .43 | .44 | | | 2 |
| 335 BOUL | 02 | 2213 | 2237 | 2217 | N10 | E14 | .246 | 13262 | 4.0 | | 24 | --F | | C | 2217 | .32 | .33 | | | 2 |
| | 02 | 2341 | 0115 | NO FLARE PATROL | | | | | | | | | | | | | | | | |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURA-TION | IM-POR-TANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| 336 PALE | 03 | 0207E | 0218D | 0208U | N12 | E07 | .152 | 13262 | 3.6 | 110 | --F | 1 | V | | .21 | | | | DE 2 |
| | 03 | 0218 | 0222 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 03 | 0232 | 0238 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 03 | 0241 | 0255 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| GRP61337 | 03 | 0631 | 0640 | 0634 | N13 | E06 | .151 | 13262 | 3.7 | 9 | --F | | | | .75 | | | | 2 2 2 4 |
| TEHR | 03 | 0629 | 0641 | 0633 | N12 | E06 | .139 | 13262 | 3.7 | 12 | -F | 4 | C | | .45 | | | | F |
| ABST | 03 | 0633 | 0638 | 0635 | N13 | E06 | .151 | 13262 | 3.7 | 5 | -F | | C | 0635 | 1.05 | 1.10 | | | F |
| GRP61338 | 03 | 0732 | 0740 | 0734 | S06 | E12 | .299 | 13263 | 4.2 | 8 | --F | | | | .84 | | | | 2 2 2 5 |
| TEHR | 03 | 0729 | 0740 | 0732 | S06 | E11 | .288 | 13263 | 4.1 | 11 | -F | 4 | C | | .19 | | | | DE |
| ABST | 03 | 0735 | 0740 | 0736 | S06 | E13 | .311 | 13263 | 4.3 | 5 | -F | | C | 0736 | 1.48 | 1.50 | | | EJ |
| 340 TEHR | 03 | 0946 | 1012 | 0947 | S05 | E09 | .254 | 13263 | 4.1 | 26 | --F | 3 | C | | .19 | | | | DE S 4 |
| 345 HUAN | 03 | 1654 | 1700 | 1656 | N06 | E85 | .995 | 13279 | 10.1 | 6 | --F | 1 | C | 1656 | .30 | | | | 3 |
| 346 MCMA | 03 | 1655 | 1659 | 1656 | N03 | E87 | .998 | 13279 | 10.2 | 4 | --F | | C | 1656 | | | | | D 3 |
| GRP61347 | 03 | 2047 | 2145 | 2101 | N09 | E01 | .045 | 13262 | 3.9 | 58 | 1F | | | | 2.68 | | | | 2 1 1 2 |
| BOUL | 03 | 2047 | 2145D | 2101 | N09 | E01 | .045 | 13262 | 3.9 | 58D | 1F | | C | 2101 | 2.68 | 2.68 | | | |
| MCMA | 03 | 2116E | 2128D | | N11 | W01 | .078 | 13262 | 3.8 | 12D | 1N | | P | 2122 | 2.58 | 2.50 | | | E |
| | 03 | 2139 | 0020 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| GRP61349 | 04 | 0517 | 0544 | 0531 | S08 | W02 | .254 | 13263 | 4.1 | 27 | --F | | | | .52 | | | | 2 2 2 5 |
| MITK | 04 | 0517 | 0544 | 0535 | S07 | W02 | .237 | 13263 | 4.1 | 27 | -F | | C | 0535 | .62 | .70 | | | D |
| MANI | 04 | 0527E | 0544D | 0527U | S08 | W02 | .254 | 13263 | 4.1 | 17D | -N | 1 | | 0527 | .41 | .41 | | | F |
| GRP61350 | 04 | 0959 | 1010 | 1006 | S05 | W04 | .212 | 13263 | 4.1 | 11 | --F | | | | .27 | | | | 1 1 1 3 |
| TEHR | 04 | 0959 | 1010D | 1006 | S05 | W04 | .212 | 13263 | 4.1 | 11D | -F | 4 | C | | .27 | | | | |
| TEHR | 04 | 1004E | 1010 | 1005U | S05 | W04 | .212 | 13263 | 4.1 | 6D | -F | 4 | V | | .25 | | | | DE |
| GRP61351 | 04 | 1115 | 1132 | 1118 | S18 | E62 | .913 | 13278 | 9.1 | 17 | --N | | | | .22 | | | | 2 2 2 4 |
| ATHN | 04 | 1114 | 1132 | 1118 | S18 | E59 | .892 | 13278 | 8.9 | 18 | -N | 3 | C | | .17 | | | | DE |
| TEHR | 04 | 1115 | 1129D | 1118 | S17 | E65 | .933 | 13278 | 9.3 | 14D | -N | 4 | C | | .27 | | | | DE |
| GRP61352 | 04 | 1226 | 1235 | 1227 | S05 | W07 | .234 | 13263 | 4.0 | 9 | --F | | | | .48 | | | | 2 2 2 4 |
| ATHN | 04 | 1226 | 1234 | 1227 | S05 | W06 | .226 | 13263 | 4.1 | 8 | -F | 3 | C | | .50 | | | | DE |
| TEHR | 04 | 1226E | 1235D | 1227 | S04 | W07 | .219 | 13263 | 4.0 | 9D | -N | 4 | C | | .45 | | | | U |
| GRP61354 | 04 | 1328 | 1350 | 1331 | S17 | E57 | .875 | 13278 | 8.8 | 22 | --F | | | | .40 | | | | 2 1 1 4 |
| HUAN | 04 | 1328 | 1350D | 1331 | S17 | E57 | .875 | 13278 | 8.8 | 22D | -F | 1 | C | 1331 | .40 | .84 | | | |
| ATHN | 04 | 1331 | 1353 | 1342 | S17 | E58 | .883 | 13278 | 8.9 | 22 | -F | 3 | C | | .33 | | | | F |
| GRP61355 | 04 | 1415 | 1500 | 1422 | S18 | E58 | .885 | 13278 | 8.9 | 45 | --F | | | | .48 | | | | 3 2 2 4 |
| ATHN | 04 | 1414 | 1438 | 1421 | S18 | E59 | .892 | 13278 | 9.0 | 24 | -F | 2 | C | | .50 | | | | F |
| HUAN | 04 | 1415 | 1503 | 1423U | S18 | E57 | .878 | 13278 | 8.9 | 48 | -N | 1 | C | 1423 | .45 | .94 | | | EK |
| BOUL | 04 | 1428E | 1445D | 1433 | S19 | E56 | .873 | 13278 | 8.8 | 17D | 1F | | C | 1433 | 1.50 | 2.66 | | | |
| ATHN | 04 | 1449 | 1456 | 1452 | S17 | E57 | .875 | 13278 | 8.9 | 7 | -F | 2 | C | | .17 | | | | DE |
| GRP61358 | 04 | 1550 | 1656 | 1559 | S19 | E56 | .873 | 13278 | 8.9 | 66 | --B | | | | .37 | | | | 2 2 2 2 |
| HUAN | 04 | 1550 | 1656 | 1602U | S17 | E57 | .875 | 13278 | 8.9 | 66 | -N | 1 | C | 1602 | .45 | .94 | | | |
| CATA | 04 | 1550 | 1555D | 1555 | S20 | E55 | .868 | 13278 | 8.8 | 5D | -B | 3 | | 1555 | .28 | .58 | 2.69 | | |
| 359 HUAN | 04 | 1825 | 1840 | 1832 | S17 | E56 | .867 | 13278 | 9.0 | 15 | --F | 1 | C | 1832 | .25 | .51 | | | D 2 |
| | 04 | 1955 | 2016 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 04 | 2029 | 2120 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 04 | 2140 | 2257 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 04 | 2335 | 0010 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 05 | 0130 | 0147 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 05 | 0154 | 0200 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 05 | 0218 | 0224 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 360 MITK | 05 | 0341 | 0349 | 0344 | N13 | E90 | 1.000 | 13280 | 11.9 | 8 | 1B | | C | 0344 | 1.03 | | | | H 4 |
| GRP61361 | 05 | 0348 | 0402 | 0355 | S08 | W20 | .417 | 13263 | 3.7 | 14 | --F | | | | .46 | | | | 2 2 2 5 |
| MITK | 05 | 0348 | 0401 | 0353 | S06 | W21 | .413 | 13263 | 3.6 | 13 | -F | | C | 0353 | .72 | .80 | | | D |
| TEHR | 05 | 0352E | 0403 | 0357 | S09 | W19 | .415 | 13263 | 3.7 | 11D | -F | 4 | C | | .19 | | | | H |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | CONF. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| 362 TEHR | 05 | 0603 | 0619 | 0612 | S09 | W20 | .427 | 13263 | 3.8 | 16 | --F | 4 | C | | .19 | | | | 4 |
| GRP61366 | 05 | 0759 | 0820 | 0808 | S13 | W54 | .839 | 13257 | 1.3 | 21 | --F | | | | .54 | | | | 2 2 2 6 |
| ABST | 05 | 0754 | 08210 | 0811 | S12 | W53 | .828 | 13257 | 1.4 | 270 | -F | | P | 0811 | .87 | 1.60 | | | DJK |
| HTPR | 05 | 0803 | 0819 | 0805 | S13 | W55 | .848 | 13257 | 1.2 | 16 | -F | | C | 0805 | .21 | .30 | | | D |
| GRP61367 | 05 | 0810 | 0817 | 0811 | N14 | E77 | .970 | 13280 | 11.1 | 7 | --F | | | | .46 | | | | 3 3 3 7 |
| TEHR | 05 | 0809 | 0817 | 0811 | N16 | E78 | .973 | 13280 | 11.2 | 8 | -F | 4 | C | | .19 | | | | |
| HTPR | 05 | 0810 | 0815 | 0810 | N12 | E75 | .961 | 13280 | 11.0 | 5 | -F | | C | 0810 | .31 | | | | D |
| ABST | 05 | 0811 | 08190 | 0812 | N13 | E78 | .974 | 13280 | 11.2 | 80 | 1F | | P | 0812 | .87 | | | | DJK |
| GRP61370 | 05 | 0832 | 0850 | 0835 | S09 | W21 | .439 | 13263 | 3.8 | 18 | --F | | | | .20 | | | | 2 2 2 6 |
| TEHR | 05 | 0830 | 0851 | 0835 | S09 | W20 | .427 | 13263 | 3.9 | 21 | -F | 4 | C | | .19 | | | | F |
| HTPR | 05 | 0833 | 0848 | 0835 | S08 | W22 | .443 | 13263 | 3.7 | 15 | -N | | C | 0835 | .21 | .20 | | | E |
| GRP61371 | 05 | 0851 | 0858 | 0854 | S05 | W23 | .434 | 13263 | 3.6 | 7 | --N | | | | .35 | | | | 3 3 3 5 |
| CATA | 05 | 0850 | 0855 | 0850 | S04 | W24 | .441 | 13263 | 3.6 | 5 | -N | 3 | | 0850 | .56 | .64 | 1.70 | | |
| TEHR | 05 | 0851 | 0902 | 0856 | S05 | W22 | .420 | 13263 | 3.7 | 11 | -F | 4 | C | | .28 | | | | |
| HTPR | 05 | 0852 | 0858 | 0855 | S05 | W23 | .434 | 13263 | 3.6 | 6 | -N | | C | 0855 | .21 | .20 | | | DH |
| 373 HTPR | 05 | 1158 | 1222 | 1217 | N08 | E90 | 1.000 | 13280 | 12.2 | 24 | -N | | C | 1217 | .31 | | | | A 2 |
| GRP61374 | 05 | 1405 | 1424 | 1409 | S08 | W18 | .392 | 13263 | 4.2 | 19 | -N | | | | 1.03 | | | | 3 3 3 3 |
| MCMA | 05 | 1405 | 14250 | 1409 | S09 | W18 | .402 | 13263 | 4.2 | 200 | -N | | C | 1409 | .77 | .90 | | | EL |
| HTPR | 05 | 1405 | 1430 | 1409 | S08 | W18 | .392 | 13263 | 4.2 | 25 | -B | | C | 1409 | .72 | .70 | | | HL |
| HUAN | 05 | 1405 | 1415 | 1408 | S07 | W17 | .370 | 13263 | 4.3 | 10 | -N | 1 | C | 1408 | 1.60 | 1.76 | | | |
| HTPR | 05 | 1408 | 1435 | 1410 | S07 | W22 | .435 | 13263 | 3.9 | 27 | -F | | C | 1410 | .21 | .20 | | | |
| GRP61375 | 05 | 1508 | 1547 | 1515 | S20 | E44 | .774 | 13278 | 8.9 | 39 | --N | | | | .49 | | | | 4 4 4 4 |
| HTPR | 05 | 1505 | 1540 | 1514 | S20 | E43 | .765 | 13278 | 8.9 | 35 | -N | | C | 1514 | .31 | .50 | | | |
| BOUL | 05 | 1507 | 1559 | 1515 | S19 | E43 | .760 | 13278 | 8.9 | 52 | -F | | C | 1515 | .64 | .88 | | | |
| HUAN | 05 | 1508 | 1545 | 1516U | S18 | E44 | .765 | 13278 | 8.9 | 37 | -N | 1 | C | 1516 | .60 | .95 | | | |
| MCMA | 05 | 1510 | 15450 | | S21 | E44 | .779 | 13278 | 8.9 | 350 | -N | | C | 1520 | .41 | .60 | | | E |
| GRP61378 | 05 | 1737 | 1746 | 1738 | N09 | E89 | .999 | 13280 | 12.4 | 9 | --F | | | | .30 | | | | 2 2 1 3 |
| MCMA | 05 | 1736 | 1745 | 1737 | N08 | E89 | .999 | 13280 | 12.4 | 9 | -N | | C | 1737 | | | | | D |
| HUAN | 05 | 1737 | 1746 | 1738 | N10 | E88 | .999 | 13280 | 12.3 | 9 | -F | 1 | C | 1738 | .30 | | | | |
| 379 HUAN | 05 | 1930 | 1932 | 1931 | S18 | E36 | .684 | 13278 | 8.5 | 2 | --F | 1 | C | 1931 | .20 | .27 | | | D 3 |
| 380 HUAN | 05 | 2037 | 2039 | 2038 | N10 | E88 | .999 | 13280 | 12.5 | 2 | --F | 1 | C | 2038 | .30 | | | | 3 |
| | 05 | 2200 | 2210 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 381 VORO | 05 | 2357 | 0002 | 2358 | N07 | E49 | .751 | 13279 | 9.7 | 5 | -B | | C | 2358 | .81 | 1.30 | | 62 | Z 2 |
| GRP61382 | 06 | 0112 | 0154 | 0122 | N06 | E87 | .998 | 13280 | 12.6 | 42 | -F | | | | .68 | | | | 2 2 2 2 |
| PALE | 06 | 0108 | 01540 | 0122 | N05 | E86 | .997 | 13280 | 12.5 | 460 | -F | 3 | C | | .81 | | | | DE U |
| VORO | 06 | 0116 | 0154 | 0122 | N06 | E87 | .998 | 13280 | 12.6 | 38 | 1N | | C | 0122 | .54 | 3.80 | | 64 | EFJ |
| GRP61383 | 06 | 0232 | 0316 | 0243 | N05 | E81 | .986 | 13280 | 12.2 | 44 | 1N | | | | 1.10 | | | | 3 3 3 3 |
| PALE | 06 | 0228 | 02590 | 0240 | N05 | E78 | .976 | 13280 | 12.0 | 310 | -N | 3 | C | | .72 | | | | F |
| MANI | 06 | 0236 | 02470 | 0242 | N05 | E80 | .983 | 13280 | 12.1 | 110 | 1N | 2 | | 0242 | 1.65 | 4.24 | | | F |
| MITK | 06 | 0244E | 03160 | 0246 | N05 | E85 | .995 | 13280 | 12.5 | 320 | 1B | | C | 0246 | .93 | | | | E |
| GRP61385 | 06 | 0604 | 0615 | 0606 | S12 | E57 | .863 | 13281 | 10.5 | 11 | --F | | | | .39 | | | | 2 2 2 3 |
| MITK | 06 | 0603 | 0614 | 0605 | S12 | E58 | .871 | 13281 | 10.6 | 11 | -F | | C | 0605 | .52 | 1.10 | | | D |
| TEHR | 06 | 0604 | 0615 | 0607 | S12 | E56 | .854 | 13281 | 10.5 | 11 | -F | 4 | C | | .25 | | | | F |
| GRP61386 | 06 | 0640 | 0654 | 0648 | N07 | E84 | .993 | 13280 | 12.6 | 14 | -N | | | | .71 | | | | 3 3 3 5 |
| TEHR | 06 | 0637E | 06530 | 0648U | N07 | E84 | .993 | 13280 | 12.6 | 160 | -B | 3 | V | | .52 | | | | DE |
| TEHR | 06 | 0638 | 0656 | 0647 | N08 | E83 | .991 | 13280 | 12.5 | 18 | -B | 3 | C | | .55 | | | | DE |
| MITK | 06 | 0641 | 0651 | 0644 | N06 | E81 | .986 | 13280 | 12.4 | 10 | -N | | C | 0644 | .52 | | | | D |
| ABST | 06 | 0652E | 06570 | 0652 | N08 | E87 | .998 | 13280 | 12.8 | 50 | 1N | | P | 0652 | 1.05 | | | 60 | BDJ |
| GRP61387 | 06 | 0740 | 0749 | 0741 | N07 | E80 | .983 | 13280 | 12.3 | 8 | -N | | | | .46 | | | | 3 3 3 4 |
| HTPR | 06 | 0739 | 0744 | 0740 | N07 | E78 | .976 | 13280 | 12.2 | 5 | -F | | C | 0740 | .31 | | | | E |
| ATHN | 06 | 0740E | 0751 | 0741 | N07 | E78 | .976 | 13280 | 12.2 | 110 | -N | 3 | C | | .66 | | | | F |
| TEHR | 06 | 0740 | 0748 | 0742 | N06 | E83 | .991 | 13280 | 12.5 | 8 | -N | 4 | V | | .41 | | | | F |
| TEHR | 06 | 0741 | 0749 | 0743 | N06 | E83 | .991 | 13280 | 12.5 | 8 | -N | 4 | C | | .36 | | | | F |
| GRP61388 | 06 | 0821 | 0837 | 0827 | N07 | E81 | .986 | 13280 | 12.4 | 16 | -N | | | | .66 | | | | 5 5 5 5 |
| ABST | 06 | 0737 | 0845 | 0826 | N09 | E83 | .991 | 13280 | 12.5 | 69 | 1N | | P | 0826 | 1.57 | | | 64 | FJKZ |
| HTPR | 06 | 0803 | 0810 | 0807 | N07 | E78 | .976 | 13280 | 12.2 | 7 | -F | | C | 0807 | .21 | | | | D |
| TEHR | 06 | 0819 | 0835 | 0828 | N05 | E83 | .991 | 13280 | 12.6 | 17 | -F | 4 | C | | .36 | | | | F |
| ARCE | 06 | 0820E | 08390 | | N07 | E82 | .989 | 13280 | 12.5 | 180 | -B | | C | 0825 | .31 | | | | |
| ATHN | 06 | 0823 | 0833 | 0827 | N07 | E77 | .972 | 13280 | 12.1 | 10 | -N | 2 | C | | .83 | | | | F |
| TEHR | 06 | 0825E | 08350 | 0828U | N05 | E83 | .991 | 13280 | 12.6 | 100 | -F | 4 | V | | .19 | | | | F |
| HTPR | 06 | 0826 | 0832 | 0828 | N07 | E78 | .976 | 13280 | 12.2 | 6 | -F | | C | 0828 | .21 | | | | E |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION — MIN. | IMPORTANCE | OBS. COND. | OBS. TYPE | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER-DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP DAY | | | | | TIME — UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| GRP61390 | 06 | 0930 | 0937 | 0934 | N07 | E78 | .976 | 13280 | 12.2 | 7 | -N | | C | | .38 | | | | 2 2 2 5 |
| HTPR | 06 | 0930 | 0937 | 0933 | N07 | E78 | .976 | 13280 | 12.2 | 7 | -N | | C | 0933 | .10 | | | | D |
| ATHN | 06 | 0930 | 09350 | 0935 | N07 | E77 | .972 | 13280 | 12.2 | 60 | -N | 1 | C | | .66 | | | | F |
| GRP61393 | 06 | 1035 | 1054 | 1040 | S21 | E34 | .685 | 13278 | 9.0 | 19 | --F | | | | .22 | | | | 2 2 2 5 |
| HTPR | 06 | 1033 | 1055 | 1040 | S22 | E33 | .683 | 13278 | 8.9 | 22 | -N | | C | 1040 | .10 | .10 | | | D |
| ATHN | 06 | 1036 | 1053 | 1040 | S20 | E35 | .687 | 13278 | 9.1 | 17 | -F | 2 | C | | .33 | | | | DE |
| GRP61394 | 06 | 1145 | 1200 | 1149 | N13 | W39 | .629 | 13262 | 3.6 | 15 | --F | | | | .79 | | | | 4 4 4 4 |
| TEHR | 06 | 1144 | 1203 | 1149 | N15 | W39 | .632 | 13262 | 3.6 | 19 | -N | 4 | C | | .45 | | | | F |
| HTPR | 06 | 1145 | 1200 | 1150 | N13 | W37 | .602 | 13262 | 3.7 | 15 | -F | | C | 1150 | .31 | .40 | | | E |
| KHAR | 06 | 1145E | 1158D | | N13 | W40 | .642 | 13262 | 3.5 | 13D | 1F | | P | 1148 | 1.75 | 2.30 | 1.50 | | C |
| ATHN | 06 | 1146 | 1158 | 1148 | N11 | W39 | .626 | 13262 | 3.6 | 12 | -F | 3 | C | | .66 | | | | U F |
| GRP61396 | 06 | 1224 | 1232 | 1227 | S08 | W37 | .638 | 13263 | 3.7 | 8 | --N | | | | .53 | | | | 3 3 3 4 |
| ATHN | 06 | 1223 | 1233 | 1226 | S10 | W35 | .623 | 13263 | 3.9 | 10 | -N | 2 | C | | .66 | | | | F |
| MCMA | 06 | 1225 | 1232 | 1227 | S07 | W38 | .646 | 13263 | 3.7 | 7 | -N | | C | 1227 | .62 | .80 | | | E |
| HTPR | 06 | 1225 | 1232 | 1227 | S07 | W39 | .658 | 13263 | 3.6 | 7 | -F | | C | 1227 | .31 | .40 | | | E |
| 397 ATHN | 06 | 1320 | 1328 | 1323 | N04 | W30 | .500 | 13263 | 4.3 | 8 | --F | 3 | C | | .17 | | | | DE H 3 |
| 398 ATHN | 06 | 1358 | 1407 | 1402 | N05 | E48 | .740 | 13279 | 10.2 | 9 | --F | 3 | C | | .33 | | | | DE 3 |
| 399 ATHN | 06 | 1446 | 1453 | 1449* | N06 | E73 | .954 | 13280 | 12.1 | 7 | -N | 3 | C | | .50 | | | | DE 3 |
| | 06 | 1521 | 1535 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 06 | 1542 | 1555 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 400 PALE | 06 | 2117 | 2204 | 2134 | N11 | E64 | .893 | 13280 | 11.7 | 47 | 1N | 3 | C | | 1.80 | | | | F 1 |
| 400 PALE | 06 | 2122E | 2204 | 2124 | N12 | E63 | .885 | 13280 | 11.6 | 42D | *-N | 3 | C | | .93 | | | | F 1 |
| 401 PALE | 06 | 2148 | 2234 | 2200 | S18 | E23 | .550 | 13278 | 8.6 | 46 | --N | 3 | C | | .45 | | | | F 2 |
| GRP61406 | 07 | 0643 | 0654 | 0649 | N06 | E69 | .931 | 13280 | 12.5 | 11 | --F | | | | .23 | | | | 2 2 2 4 |
| ATHN | 07 | 0643 | 0653 | 0648 | N06 | E67 | .917 | 13280 | 12.3 | 10 | -N | 3 | C | | .17 | | | | F |
| TEHR | 07 | 0647E | 06550 | 0649 | N06 | E71 | .943 | 13280 | 12.6 | 8D | -F | 4 | V | | .28 | | | | |
| GRP61408 | 07 | 0848 | 0936 | 0903 | N13 | E62 | .877 | 13280 | 12.0 | 48 | -N | | | | .95 | | | | 6 5 5 7 |
| MONT | 07 | 0848 | 09050 | 0859 | N13 | E63 | .885 | 13280 | 12.1 | 18D | -N | | C | 0859 | .60 | | | | E |
| ABST | 07 | 0848 | 0931 | 0909 | N13 | E63 | .885 | 13280 | 12.1 | 43 | 1N | | C | 0909 | .96 | 2.10 | | 78 | FJK |
| TEHR | 07 | 0855E | 09180 | 0905U | N11 | E62 | .878 | 13280 | 12.0 | 23D | -B | 4 | C | | .55 | | | | F |
| ATHN | 07 | 0856E | 09250 | 0858 | N14 | E60 | .861 | 13280 | 11.9 | 30D | -N | 2 | C | | .99 | | | | F |
| KHAR | 07 | 0904E | 09400 | | N12 | E62 | .878 | 13280 | 12.0 | 36D | 1N | | P | 0906 | 1.65 | 3.70 | 2.10 | | T |
| ARCE | 07 | 0917E | 09310 | | N12 | E64 | .893 | 13280 | 12.2 | 14D | 1N | | P | 0925 | 1.31 | 2.10 | | | |
| GRP61412 | 07 | 1311 | 1330 | 1315 | S17 | E17 | .482 | 13278 | 8.8 | 19 | --N | | | | .60 | | | | 3 3 3 4 |
| ATHN | 07 | 1310 | 1333 | 1316 | S17 | E17 | .482 | 13278 | 8.8 | 23 | -F | 3 | C | | .99 | | | | F |
| TEHR | 07 | 1311 | 1331 | 1314 | S12 | E17 | .423 | 13278 | 8.8 | 20 | -N | 4 | C | | .36 | | | | DE |
| MCMA | 07 | 1312 | 1327 | 1316 | S21 | E16 | .524 | 13278 | 8.8 | 15 | -N | | C | 1316 | .46 | .50 | | | E |
| | 07 | 1532 | 1537 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 413 HUAN | 07 | 1537E | 1542 | | N08 | E62 | .879 | 13280 | 12.3 | 5D | --F | 1 | P | 1539 | .25 | .55 | | | C 2 |
| GRP61414 | 07 | 1913 | 1936 | 1920 | S20 | E15 | .504 | 13278 | 8.9 | 23 | --F | | | | .89 | | | | 2 2 2 2 |
| BOUL | 07 | 1913 | 1942 | 1920 | S19 | E14 | .483 | 13278 | 8.9 | 29 | -F | | C | 1920 | .96 | .99 | | | |
| PALE | 07 | 1917E | 1930 | 1920 | S20 | E15 | .504 | 13278 | 8.9 | 13D | -N | 2 | C | | .81 | | | | DE U |
| 415 BOUL | 07 | 2050 | 2115 | 2057 | N05 | E21 | .357 | 13279 | 9.4 | 25 | --F | | C | 2057 | .75 | .80 | | | 2 |
| | 07 | 2327 | 2334 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 08 | 0109 | 0119 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 08 | 0211 | 0230 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 08 | 0238 | 0256 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| GRP61419 | 08 | 1023 | 1043 | 1031 | N07 | E50 | .762 | 13280 | 12.2 | 20 | --F | | | | .35 | | | | 2 2 2 3 |
| TEHR | 08 | 1021 | 1046 | 1027 | N07 | E50 | .762 | 13280 | 12.2 | 25 | -F | 4 | C | | .36 | | | | DE |
| ATHN | 08 | 1024 | 1040 | 1034 | N07 | E50 | .762 | 13280 | 12.2 | 16 | -F | 4 | C | | .33 | | | | DE |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | | DURATION — MIN. | IMPORTANCE | OBS. COND. | OBS. TYPE | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | | | | | | TIME — UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| GRP61420 | 08 | 1114 | 1202 | 1119 | N07 | E49 | .751 | 13280 | 12.1 | | 48 | -N | | | | .63 | | | | 3 3 3 3 |
| ATHN | 08 | 1113 | 1203 | 1120 | N06 | E50 | .763 | 13280 | 12.2 | | 50 | -N | 4 | C | | .83 | | | | Z F |
| TEHR | 08 | 1114 | 1201 | 1119 | N07 | E50 | .762 | 13280 | 12.2 | | 47 | -N | 4 | C | | .64 | | | | DE |
| HTPR | 08 | 1115 | 12000 | 1118 | N07 | E48 | .739 | 13280 | 12.1 | | 450 | -N | | C | 1118 | .41 | .60 | | | EK |
| HTPR | 08 | 1115 | 12000 | 1133 | N07 | E48 | .739 | 13280 | 12.1 | | 450 | -N | | C | 1133 | .41 | .60 | | | EK |
| TEHR | 08 | 1116E | 1201 | 1120 | N07 | E50 | .762 | 13280 | 12.2 | | 450 | -N | 4 | V | | .66 | | | | Z |
| GRP61423 | 08 | 1311 | 1327 | 1313 | N11 | E42 | .666 | 13280 | 11.7 | | 16 | --N | | | | .49 | | | | 3 3 3 4 |
| ATHN | 08 | 1310 | 1326 | 1312 | N12 | E41 | .654 | 13280 | 11.6 | | 16 | -N | 3 | C | | .83 | | | | F |
| TEHR | 08 | 1311 | 1332 | 1313 | N10 | E42 | .665 | 13280 | 11.7 | | 21 | -N | 2 | C | | .45 | | | | DE |
| HUAN | 08 | 1312 | 1323 | 1315 | N11 | E44 | .691 | 13280 | 11.9 | | 11 | -F | 1 | C | 1315 | .20 | .28 | | | D |
| GRP61425 | 08 | 1404 | 1410 | 1405 | N10 | E43 | .678 | 13280 | 11.8 | | 6 | --F | | | | .32 | | | | 3 3 3 3 |
| ATHN | 08 | 1402 | 1410 | 1405 | N09 | E42 | .665 | 13280 | 11.7 | | 8 | -F | 3 | C | | .33 | | | | F |
| BOUL | 08 | 1405 | 14100 | 1406 | N11 | E42 | .666 | 13280 | 11.7 | | 50 | -F | | C | 1406 | .43 | .58 | | | |
| HUAN | 08 | 1405 | 1409 | 1405 | N11 | E44 | .691 | 13280 | 11.9 | | 4 | -F | 1 | C | 1405 | .20 | .28 | | | D |
| | 08 | 1434 | 1437 | NO FLARE PATROL | | | | | | | | | | | | | | | | |
| GRP61426 | 08 | 1449 | 1514 | 1452 | N07 | E48 | .739 | 13280 | 12.2 | | 25 | -B | | | | .68 | | | | 3 3 3 3 |
| HTPR | 08 | 1448 | 1507 | 1451 | N07 | E47 | .727 | 13280 | 12.1 | | 19 | -B | | C | 1451 | .72 | 1.00 | | | E |
| HUAN | 08 | 1449 | 1520 | 1450 | N08 | E48 | .739 | 13280 | 12.2 | | 31 | -N | 1 | C | 1450 | .50 | .76 | | | E |
| RAMY | 08 | 1449 | 1515 | 1456 | N06 | E48 | .740 | 13280 | 12.2 | | 26 | -B | 4 | V | | .83 | | | | DE |
| GRP61427 | 08 | 1550 | 1610 | 1555 | N07 | E47 | .727 | 13280 | 12.2 | | 20 | --F | | | | .31 | | | | 3 3 3 3 |
| HTPR | 08 | 1550 | 1558D | 1554 | N07 | E47 | .727 | 13280 | 12.2 | | 80 | -F | | C | 1554 | .31 | .50 | | | E |
| HUAN | 08 | 1554E | 1605 | | N07 | E47 | .727 | 13280 | 12.2 | | 110 | -F | 1 | P | 1554 | .30 | .45 | | | CE |
| BOUL | 08 | 1555E | 1615 | 1555E | N07 | E47 | .727 | 13280 | 12.2 | | 200 | -F | | C | 1555 | .32 | .47 | | | |
| GRP61428 | 08 | 1742 | 1805 | 1744 | N07 | E46 | .715 | 13280 | 12.2 | | 23 | -N | | | | 1.00 | | | | 3 3 3 3 |
| BOUL | 08 | 1741 | 1805 | 1744 | N08 | E45 | .703 | 13280 | 12.1 | | 24 | -N | | C | 1744 | 1.18 | 1.66 | | | |
| HUAN | 08 | 1742 | 1807 | 1743 | N07 | E45 | .703 | 13280 | 12.1 | | 25 | -N | 1 | C | 1743 | .90 | 1.28 | | | E |
| PALE | 08 | 1743 | 1803 | 1745 | N07 | E47 | .727 | 13280 | 12.3 | | 20 | -B | 3 | C | | .91 | | | | DE |
| GRP61429 | 08 | 1818 | 1840 | 1828 | S19 | E00 | .428 | 13278 | 8.8 | | 22 | --F | | | | .45 | | | | 3 3 3 3 |
| BOUL | 08 | 1815 | 1848 | 1828 | S18 | W01 | .413 | 13278 | 8.7 | | 33 | -F | | C | 1828 | .43 | .43 | | | |
| HUAN | 08 | 1820 | 1838 | 1830U | S19 | E00 | .428 | 13278 | 8.8 | | 18 | -F | 1 | C | 1830 | .50 | .57 | | | |
| PALE | 08 | 1822E | 1833 | 1825 | S19 | E01 | .428 | 13278 | 8.8 | | 110 | -N | 3 | C | | .41 | | | | F |
| GRP61431 | 08 | 1918 | 1927 | 1922 | N07 | E46 | .715 | 13280 | 12.3 | | 9 | --F | | | | .28 | | | | 3 3 3 3 |
| HUAN | 08 | 1918 | 19210 | | N08 | E45 | .703 | 13280 | 12.2 | | 30 | -F | 1 | P | 1921 | .25 | .36 | | | D |
| BOUL | 08 | 1918 | 1928 | 1921 | N07 | E45 | .703 | 13280 | 12.2 | | 10 | -F | | C | 1921 | .32 | .45 | | | |
| PALE | 08 | 1918 | 1926 | 1922 | N07 | E49 | .751 | 13280 | 12.5 | | 8 | -F | 3 | C | | .27 | | | | F |
| 432 BOUL | 08 | 2054 | 2111 | 2058 | S16 | E00 | .380 | 13278 | 8.9 | | 17 | --F | | C | 2058 | .21 | .21 | | | 3 |
| GRP61433 | 08 | 2300 | 2309 | 2302 | N07 | E44 | .691 | 13280 | 12.3 | | 9 | --F | | | | .33 | | | | 2 2 2 4 |
| BOUL | 08 | 2258 | 2308 | 2301 | N06 | E44 | .691 | 13280 | 12.3 | | 10 | -F | | C | 2301 | .21 | .30 | | | |
| PALE | 08 | 2302 | 2310 | 2303 | N07 | E43 | .678 | 13280 | 12.2 | | 8 | -F | 3 | C | | .45 | | | | DE |
| GRP61435 | 08 | 2318 | 2323 | 2320 | S19 | W05 | .436 | 13278 | 8.6 | | 5 | --N | | | | .61 | | | | 2 2 2 4 |
| VORO | 08 | 2318 | 2322 | 2319 | S19 | W03 | .431 | 13278 | 8.7 | | 4 | -B | | C | 2319 | .90 | 1.00 | | 66 | DHJ |
| PALE | 08 | 2318 | 2323 | 2320 | S19 | W06 | .439 | 13278 | 8.5 | | 5 | -F | 3 | C | | .31 | | | | |
| GRP61436 | 08 | 2329 | 2347 | 2333 | S17 | W02 | .398 | 13278 | 8.8 | | 18 | --N | | | | .68 | | | | 2 2 2 2 |
| PALE | 08 | 2328 | 2352 | 2334 | S17 | W02 | .398 | 13278 | 8.8 | | 24 | -F | 3 | C | | .45 | | | | DE |
| VORO | 08 | 2329 | 2342 | 2332 | S17 | W01 | .397 | 13278 | 8.9 | | 13 | -B | | C | 2332 | .90 | 1.00 | | 67 | EJ |
| 437 PALE | 09 | 0048 | 0101 | 0050 | N05 | E42 | .667 | 13280 | 12.2 | | 13 | --F | 3 | C | | .55 | | | | DE 2 |
| GRP61440 | 09 | 0155 | 0210 | 0158 | N11 | E35 | .572 | 13280 | 11.7 | | 15 | -N | | | | 1.12 | | | | 2 2 2 4 |
| VORO | 09 | 0154 | 0207 | 0156 | N12 | E35 | .573 | 13280 | 11.7 | | 13 | -B | | C | 0156 | 1.16 | 1.40 | | 63 | EJ |
| PALE | 09 | 0156 | 0212 | 0159 | N10 | E35 | .571 | 13280 | 11.7 | | 16 | -F | 3 | C | | 1.08 | | | | F |
| GRP61441 | 09 | 0236 | 0250 | 0240 | S18 | W04 | .416 | 13278 | 8.8 | | 14 | --B | | | | .63 | | | | 2 2 2 4 |
| PALE | 09 | 0235 | 0253 | 0239 | S18 | W04 | .416 | 13278 | 8.8 | | 18 | -N | 2 | C | | .36 | | | | DE |
| VORO | 09 | 0237 | 0246 | 0240 | S18 | W04 | .416 | 13278 | 8.8 | | 9 | -B | | C | 0240 | .90 | 1.00 | | 64 | EJ |
| 442 PALE | 09 | 0252 | 0253 | 0252U | N07 | E40 | .639 | 13280 | 12.1 | | 1 | --F | 2 | C | | .45 | | | | DE 4 |
| 444 PALE | 09 | 0351E | 04010 | 0352U | S08 | W06 | .267 | 13278 | 8.7 | | 100 | --F | 1 | C | | .52 | | | | 3 |
| 445 PALE | 09 | 0351E | 04010 | 0352U | N09 | E32 | .527 | 13280 | 11.6 | | 100 | --F | 1 | C | | .62 | | | | 3 |
| GRP61447 | 09 | 0445 | 0453 | 0446 | N06 | E42 | .666 | 13280 | 12.3 | | 8 | --N | | | | .40 | | | | 2 2 2 4 |
| MANI | 09 | 0445E | 04500 | 0445U | N05 | E42 | .667 | 13280 | 12.3 | | 50 | -N | 2 | | 0445 | .52 | .69 | | | |
| TEHR | 09 | 0446E | 04530 | 0447U | N07 | E41 | .652 | 13280 | 12.3 | | 70 | -N | 3 | C | | .28 | | | | DE |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | NOAA PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| GRP61450 | 09 | 0542 | 0620 | 0547 | N04 | E05 | .096 | 13279 | 9.6 | 38 | -N | | | | 1.21 | | | | 3 3 3 4 |
| ATHN | 09 | 0542 | 0617 | 0545 | N05 | E05 | .090 | 13279 | 9.6 | 35 | -B | 3 | C | | .99 | | | | U U |
| TEHR | 09 | 0543E | 0602D | 0546U | N04 | E06 | .111 | 13279 | 9.7 | 19D | -N | 2 | C | | .45 | | | | F |
| ABST | 09 | 0545E | 0622 | 0549 | N02 | E04 | .102 | 13279 | 9.5 | 37D | 1N | | P | 0549 | 2.18 | 2.20 | | 89 | FJU |
| 454 ATHN | 09 | 1006 | 1018 | 1011 | N11 | E19 | .331 | 13280 | 10.8 | 12 | --F | 3 | C | | .33 | | | | F 3 |
| GRP61455 | 09 | 1039 | 1130 | 1042 | S19 | W10 | .456 | 13278 | 8.7 | 51 | --F | | | | .30 | | | | 2 2 2 4 |
| MONT | 09 | 1038 | 1041D | 1041 | S19 | W09 | .451 | 13278 | 8.8 | 3D | -N | | C | 1041 | .50 | | | | O |
| HTPR | 09 | 1039 | 1130 | 1042 | S18 | W10 | .442 | 13278 | 8.7 | 51 | -F | | C | 1042 | .10 | .10 | | | EK |
| GRP61458 | 09 | 1239 | 1255 | 1243 | N06 | E36 | .585 | 13280 | 12.2 | 16 | --F | | | | .31 | | | | 2 2 2 5 |
| HUAN | 09 | 1238 | 1255 | 1244 | N07 | E36 | .584 | 13280 | 12.2 | 17 | -F | 1 | C | 1244 | .40 | .51 | | | E |
| HTPR | 09 | 1240 | 1254 | 1241 | N05 | E35 | .571 | 13280 | 12.2 | 14 | -F | | C | 1241 | .21 | .20 | | | E |
| GRP61459 | 09 | 1251 | 1309 | 1255 | N08 | E10 | .175 | 13280 | 10.3 | 18 | --F | | | | .22 | | | | 3 3 3 5 |
| ATHN | 09 | 1248 | 1322 | 1255 | N08 | E10 | .175 | 13280 | 10.3 | 34 | -F | 3 | C | | .33 | | | | DE H |
| HTPR | 09 | 1252 | 1302 | 1254 | N07 | E10 | .173 | 13280 | 10.3 | 10 | -F | | C | 1254 | .21 | .20 | | | |
| TEHR | 09 | 1253 | 1303 | 1255 | N09 | E10 | .178 | 13280 | 10.3 | 10 | -N | 3 | C | | .12 | | | | DE |
| GRP61460 | 09 | 1400 | 1425 | 1403 | N07 | E36 | .584 | 13280 | 12.3 | 25 | --F | | | | .49 | | | | 4 4 4 6 |
| BOUL | 09 | 1359 | 1425 | 1404 | N07 | E35 | .570 | 13280 | 12.2 | 26 | -F | | C | 1404 | .54 | .65 | | | |
| HTPR | 09 | 1359 | 1423 | 1401 | N07 | E36 | .584 | 13280 | 12.3 | 24 | -N | | C | 1402 | .52 | .60 | | | EK |
| HUAN | 09 | 1400 | 1424 | 1403 | N08 | E36 | .584 | 13280 | 12.3 | 24 | -F | 1 | C | 1403 | .40 | .51 | | | E |
| ATHN | 09 | 1400 | 1428 | 1403 | N06 | E36 | .585 | 13280 | 12.3 | 28 | -F | 3 | C | | .50 | | | | F |
| 464 MCMA | 09 | 1640 | 1655 | 1641 | N05 | E35 | .571 | 13280 | 12.3 | 15 | --F | | C | 1641 | .26 | .40 | | | DH 3 |
| GRP61465 | 09 | 1642 | 1705 | 1650 | S23 | W09 | .509 | 13278 | 9.0 | 24 | --N | | | | .72 | | | | 4 4 4 4 |
| MCMA | 09 | 1638E | 1700 | 1649 | S23 | W10 | .513 | 13278 | 8.9 | 22D | -B | | C | 1649 | .62 | .70 | | | EV |
| BOUL | 09 | 1639 | 1722 | 1648 | S23 | W08 | .505 | 13278 | 9.1 | 43 | -N | | C | 1648 | 1.29 | 1.30 | | | |
| PALE | 09 | 1650 | 1701 | 1653 | S23 | W09 | .509 | 13278 | 9.0 | 11 | -N | 1 | C | | .55 | | | | |
| HUAN | 09 | 1654E | 1659 | | S23 | W09 | .509 | 13278 | 9.0 | 5D | -N | 1 | P | 1654 | .40 | .48 | | | |
| GRP61467 | 09 | 2100 | 2123 | 2107 | N06 | E35 | .571 | 13280 | 12.5 | 23 | --F | | | | .26 | | | | 2 2 2 3 |
| MCMA | 09 | 2058E | 2123D | | N05 | E36 | .613 | 13280 | 12.7 | 25D | -N | | C | 2108 | .31 | .40 | | | DH |
| BOUL | 09 | 2101 | 2122 | 2107 | N07 | E32 | .527 | 13280 | 12.3 | 21 | -F | | C | 2107 | .21 | .25 | | | |
| 468 PALE | 09 | 2150E | 2152D | 2152U | N03 | W07 | .134 | 13279 | 9.4 | 2D | --F | 2 | C | | .27 | | | | DE 2 |
| 469 PALE | 09 | 2202E | 2208 | 2203U | N06 | E27 | .452 | 13280 | 11.9 | 6D | --F | 2 | V | | .21 | | | | DE 2 |
| | 09 | 2225 | 2244 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| GRP61470 | 09 | 2324 | 2353 | 2332 | N06 | E28 | .467 | 13280 | 12.1 | 29 | --N | | | | .81 | | | | 1 1 1 2 |
| PALE | 09 | 2324E | 2353 | 2332 | N06 | E29 | .482 | 13280 | 12.1 | 29D | -N | 2 | C | | .81 | | | | DE |
| PALE | 09 | 2329E | 2352 | 2332 | N06 | E27 | .452 | 13280 | 12.0 | 23D | -F | 2 | V | | .41 | | | | DE |
| GRP61471 | 10 | 0000 | 0015 | 0001 | S07 | W79 | .985 | 13263 | 4.1 | 16 | --F | | | | .20 | | | | 2 2 2 4 |
| MANI | 10 | 0000E | 0012D | 0000U | S07 | W78 | .981 | 13263 | 4.1 | 12D | -F | 1 | | 0000 | .21 | .52 | | | |
| PALE | 10 | 0001E | 0016 | 0001U | S06 | W79 | .984 | 13263 | 4.1 | 15D | -F | 2 | C | | .19 | | | | |
| 472 PALE | 10 | 0034 | 0111 | 0039 | N08 | E26 | .436 | 13280 | 12.0 | 37 | --F | 2 | C | | .81 | | | | U 3 |
| 473 PALE | 10 | 0118 | 0125 | 0121 | N07 | E26 | .436 | 13280 | 12.0 | 7 | --F | 2 | C | | .19 | | | | DE 3 |
| 474 PALE | 10 | 0303 | 0322 | 0309 | S19 | W20 | .530 | 13278 | 8.6 | 19 | --F | 2 | C | | .45 | | | | DE 4 |
| 475 PALE | 10 | 0305 | 0315 | 0309 | N07 | E26 | .436 | 13280 | 12.1 | 10 | --F | 2 | C | | .27 | | | | DE 4 |
| GRP61476 | 10 | 0543 | 0614 | 0550 | S19 | W18 | .513 | 13278 | 8.9 | 31 | --F | | | | .58 | | | | 2 2 2 2 |
| TEHR | 10 | 0542 | 0615 | 0550 | S18 | W17 | .492 | 13278 | 9.0 | 33 | -F | 3 | C | | .64 | | | | U |
| ATHN | 10 | 0544 | 0612 | 0550 | S19 | W18 | .513 | 13278 | 8.9 | 28 | -N | 1 | | 0550 | .52 | .50 | | | |
| GRP61477 | 10 | 0619 | 0707 | 0623 | N04 | W07 | .127 | 13279 | 9.7 | 48 | -B | | | | 1.17 | | | | 3 3 3 3 |
| ATHN | 10 | 0618 | 0730 | 0623 | N05 | W03 | .056 | 13279 | 10.3 | 42 | -B | 1 | | 0623 | .85 | .80 | | | |
| TEHR | 10 | 0620 | 0713 | 0623 | N05 | W09 | .157 | 13279 | 9.8 | 53 | -B | 3 | C | | 1.64 | | | | U |
| HTPR | 10 | 0625E | 0628D | | N03 | W10 | .182 | 13279 | 9.9 | 3D | -N | | C | 0628 | 1.03 | 1.00 | | | E |
| GRP61479 | 10 | 0821 | 0825 | 0823 | N11 | E27 | .456 | 13280 | 12.4 | 4 | --F | | | | .19 | | | | 2 2 2 6 |
| HTPR | 10 | 0820E | 0824 | | N12 | E26 | .443 | 13280 | 12.3 | 4D | -F | | C | 0821 | .21 | .20 | | | |
| ATHN | 10 | 0822 | 0825 | 0823 | N09 | E27 | .452 | 13280 | 12.4 | 4 | -N | 1 | | 0823 | .17 | .16 | | | |
| GRP61480 | 10 | 0909 | 0919 | 0913 | N11 | E25 | .425 | 13280 | 12.3 | 10 | --F | | | | .21 | | | | 3 3 3 5 |
| ARCE | 10 | 0905E | 0910D | | N10 | E25 | .423 | 13280 | 12.3 | 5D | -F | | F | 0910 | .37 | .40 | | | H* |
| HTPR | 10 | 0908 | 0919 | 0911 | N12 | E26 | .443 | 13280 | 12.3 | 11 | -F | | C | 0911 | .10 | .10 | | | |
| ATHN | 10 | 0914 | 0918 | 0915 | N11 | E25 | .425 | 13280 | 12.3 | 4 | -F | 1 | | 0915 | .17 | .16 | | | |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. COND. | OBS. TYPE | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | | | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| GRP61481 | 10 | 0950 | 0959 | 0955 | N08 | E24 | .405 | 13280 | 12.2 | 9 | --F | | | | .42 | | | | 2 2 2 6 |
| ARCE | 10 | 0945E | 10000 | | N07 | E25 | .420 | 13280 | 12.3 | 150 | -F | | C | 0950 | .63 | .70 | | | |
| HTPR | 10 | 0954 | 0957 | 0955 | N08 | E23 | .389 | 13280 | 12.1 | 3 | -F | | C | 0955 | .21 | .20 | | | E |
| GRP61482 | 10 | 1035 | 1050 | 1038 | N07 | E25 | .420 | 13280 | 12.3 | 14 | --N | | | | .45 | | | | 3 3 3 5 |
| HTPR | 10 | 1035 | 1050 | 1037 | N09 | E24 | .406 | 13280 | 12.2 | 15 | -F | | C | 1037 | .31 | .30 | | | E |
| MONT | 10 | 1035E | 10420 | 1040 | N08 | E25 | .421 | 13280 | 12.3 | 60 | -N | | C | 1040 | .70 | | | | E |
| ATHN | 10 | 1035 | 1043 | 1038 | N05 | E25 | .421 | 13280 | 12.3 | 13 | -N | 1 | | 1038 | .34 | .33 | | | |
| GRP61483 | 10 | 1049 | 1122 | 1058 | N10 | E08 | .152 | 13280 | 11.1 | 33 | -8 | | | | 1.90 | | | | 4 3 3 6 |
| HTPR | 10 | 1045 | 1115 | 1055 | N10 | E08 | .152 | 13280 | 11.0 | 30 | -8 | | C | 1055 | .31 | .30 | | | IK |
| HTPR | 10 | 1047 | 1110 | 1056 | N13 | E08 | .180 | 13280 | 11.0 | 23 | -N | | C | 1056 | .83 | .80 | | | I |
| ATHN | 10 | 1047 | 1122 | 1050 | N18 | E03 | .210 | 13280 | 10.7 | 35 | -8 | 1 | | 1050 | 1.55 | 2.10 | | | |
| ATHN | 10 | 1047 | 1113 | 1054 | N05 | E15 | .258 | 13280 | 11.6 | 26 | -8 | 1 | | 1054 | .85 | .80 | | | |
| HTPR | 10 | 1050 | 1140 | 1102 | N07 | E13 | .224 | 13280 | 11.4 | 50 | -F | | C | 1102 | .31 | .30 | | | |
| CATA | 10 | 1055 | 1200 | 1115 | N11 | E06 | .132 | 13280 | 10.9 | 65 | 1N | 3 | | 1115 | 3.09 | 3.21 | 1.91 | | |
| MONT | 10 | 1056E | 1129 | 1106 | N10 | E05 | .108 | 13280 | 10.9 | 330 | 1N | | C | 1106 | 3.00 | | | | F |
| HTPR | 10 | 1056 | 1103 | 1102 | N11 | E10 | .190 | 13280 | 11.2 | 7 | -F | | C | 1102 | .31 | .30 | | | E |
| GRP61485 | 10 | 1134 | 1146 | 1139 | N07 | E25 | .420 | 13280 | 12.4 | 12 | --F | | | | .27 | | | | 2 2 2 5 |
| ATHN | 10 | 1131 | 1147 | 1137 | N05 | E24 | .405 | 13280 | 12.3 | 16 | -N | 1 | | 1137 | .34 | .33 | | | |
| MONT | 10 | 1136 | 1145 | 1141 | N08 | E25 | .421 | 13280 | 12.4 | 9 | -F | | C | 1141 | .20 | | | | |
| GRP61487 | 10 | 1221 | 1231 | 1223 | N11 | E15 | .268 | 13280 | 11.6 | 10 | --F | | | | .39 | | | | 4 4 4 5 |
| HTPR | 10 | 1220 | 1227 | 1221 | N12 | E15 | .274 | 13280 | 11.6 | 7 | -F | | C | 1221 | .31 | .30 | | | E |
| ATHN | 10 | 1221 | 1230 | 1223 | N10 | E15 | .264 | 13280 | 11.6 | 9 | -N | 1 | | 1223 | .34 | | | | |
| MONT | 10 | 1222 | 1233 | 1224 | N11 | E16 | .284 | 13280 | 11.7 | 11 | -N | | C | 1224 | .40 | | | | E |
| HUAN | 10 | 1223E | 1233 | | N12 | E14 | .258 | 13280 | 11.6 | 100 | -F | 1 | P | 1226 | .50 | .54 | | | |
| GRP61490 | 10 | 1404 | 1409 | 1406 | N12 | E09 | .184 | 13280 | 11.3 | 5 | --F | | | | .38 | | | | 2 2 2 5 |
| HUAN | 10 | 1403 | 1410 | 1406 | N12 | E09 | .184 | 13280 | 11.3 | 7 | -F | 1 | C | 1406 | .35 | .37 | | | |
| MONT | 10 | 1404 | 1407 | 1405 | N12 | E09 | .184 | 13280 | 11.3 | 3 | -F | | C | 1405 | .40 | | | | |
| GRP61491 | 10 | 1404 | 1413 | 1407 | N07 | E22 | .372 | 13280 | 12.2 | 9 | --F | | | | .33 | | | | 2 2 2 5 |
| HUAN | 10 | 1404 | 1417 | 1407 | N07 | E23 | .388 | 13280 | 12.3 | 13 | -F | 2 | C | 1407 | .45 | .50 | | | E |
| MONT | 10 | 1404 | 1408 | 1406 | N07 | E20 | .340 | 13280 | 12.1 | 4 | -F | | C | 1406 | .20 | | | | |
| 494 MCMA | 10 | 1510 | 1517 | 1513 | N10 | E20 | .344 | 13280 | 12.1 | 7 | --N | | C | 1513 | .31 | .30 | | | E 2 |
| GRP61495 | 10 | 1521 | 1600 | 1530 | N07 | E22 | .372 | 13280 | 12.3 | 39 | --N | | | | .66 | | | | 4 4 4 4 |
| MCMA | 10 | 1521 | 1600 | 1530 | N07 | E21 | .356 | 13280 | 12.2 | 39 | -8 | | C | 1530 | .52 | .50 | | | EM |
| BOUL | 10 | 1525E | 15430 | 1530 | N08 | E21 | .357 | 13280 | 12.2 | 180 | -F | | C | 1530 | 1.50 | 1.61 | | | |
| HTPR | 10 | 1528E | 15290 | | N06 | E22 | .373 | 13280 | 12.3 | 10 | -F | | C | 1528 | .21 | .20 | | | |
| HUAN | 10 | 1535E | 1600 | | N07 | E22 | .372 | 13280 | 12.3 | 250 | -N | 1 | P | 1537 | .40 | .44 | | | |
| 496 HUAN | 10 | 1626 | 1627 | 1627 | N12 | E21 | .367 | 13280 | 12.3 | 1 | --F | 2 | C | 1627 | .20 | .22 | | | D 3 |
| 497 MCMA | 10 | 1634 | 1640 | 1637 | S19 | W29 | .617 | 13278 | 8.5 | 6 | --N | | C | 1637 | .41 | .50 | | | D 3 |
| GRP61498 | 10 | 1648 | 1657 | 1652 | S19 | W28 | .607 | 13278 | 8.6 | 9 | --N | | | | .56 | | | | 2 2 2 3 |
| MCMA | 10 | 1645 | 1658 | 1652 | S19 | W29 | .617 | 13278 | 8.5 | 13 | -N | | C | 1652 | .52 | .70 | | | E |
| HUAN | 10 | 1650 | 1655 | 1652 | S19 | W27 | .597 | 13278 | 8.7 | 5 | -N | 1 | C | 1652 | .60 | .77 | | | E |
| GRP61499 | 10 | 1723 | 1735 | 1726 | N13 | E07 | .168 | 13280 | 11.2 | 13 | --F | | | | .45 | | | | 2 2 2 3 |
| BOUL | 10 | 1723E | 1740 | 1725 | N13 | E08 | .180 | 13280 | 11.3 | 170 | -F | | C | 1725 | .54 | .54 | | | |
| PALE | 10 | 1726E | 1732 | 1726 | N13 | E06 | .156 | 13280 | 11.2 | 60 | -F | 3 | C | | .36 | | | | OE |
| 3 STATIONS REPORTING GROUP 61500. 0 STATIONS OBSERVING AND NOT REPORTING. | | | | | | | | | | | | | | | | | | | |
| GRP61500 | 10 | 1725 | 1750 | 1729 | N07 | E21 | .356 | 13280 | 12.3 | 25 | --F | | | | .24 | | | | 2 2 2 3 |
| BOUL | 10 | 1723E | 18520 | 1725 | N07 | E21 | .356 | 13280 | 12.3 | 890 | -F | | C | 1731 | .21 | .23 | | | |
| PALE | 10 | 1726 | 1750 | 1732 | N07 | E20 | .340 | 13280 | 12.2 | 24 | -F | 3 | C | | .27 | | | | OE |
| 61500 | 10 | 1730 | 1805 | 1745 | N05 | E20 | .341 | 13280 | 12.2 | 35 | *-N | | | | 1.55 | | | | 2 1 1 2 |
| MCMA | 10 | 1730E | 1805D | | N05 | E20 | .341 | 13280 | 12.2 | 350 | -N | | C | 1743 | 1.55 | 1.60 | | | EIT |
| PALE | 10 | 1741 | 1759 | 1745 | N12 | E07 | .156 | 13280 | 11.3 | 18 | -N | 2 | C | | .55 | | | | F |
| GRP61501 | 10 | 1808 | 1835 | 1810 | N11 | E18 | .316 | 13280 | 12.1 | 27 | -8 | | | | 1.07 | | | | 3 3 3 3 |
| MCMA | 10 | 1808 | 1840 | 1809 | N10 | E18 | .312 | 13280 | 12.1 | 32 | -8 | | C | 1809 | 1.03 | 1.10 | | | EV |
| PALE | 10 | 1809E | 1829 | 1810 | N12 | E19 | .336 | 13280 | 12.2 | 200 | -8 | 2 | C | | 1.08 | | | | U |
| HUAN | 10 | 1810E | 18140 | | N12 | E18 | .320 | 13280 | 12.1 | 40 | -N | 1 | P | 1811 | 1.10 | 1.20 | | | |
| GRP61502 | 10 | 1820 | 1903 | 1832 | N13 | E06 | .156 | 13280 | 11.2 | 43 | -8 | | | | 1.56 | | | | 4 4 4 4 |
| PALE | 10 | 1819 | 1902 | 1830 | N13 | E06 | .156 | 13280 | 11.2 | 43 | -8 | 3 | C | | 1.27 | | | | F |
| MCMA | 10 | 1820 | 1900 | 1836 | N13 | E05 | .146 | 13280 | 11.1 | 40 | -8 | | C | 1836 | 1.55 | 1.50 | | | EH |
| BOUL | 10 | 1825E | 1914 | 1829 | N13 | E07 | .168 | 13280 | 11.3 | 490 | 1N | | C | 1829 | 2.57 | 2.59 | | | |
| HUAN | 10 | 1838E | 1854 | | N12 | E06 | .144 | 13280 | 11.2 | 160 | -N | 2 | P | 1839 | .85 | .88 | | | E |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURA-TION | IM-POR-TANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| GRP61503 | 10 | 1838 | 1845 | 1841 | S18 | W26 | .578 | 13278 | 8.8 | 7 | --F | | | | .34 | | | | 2 2 2 4 |
| BOUL | 10 | 1838 | 18420 | 1840 | S18 | W26 | .578 | 13278 | 8.8 | 40 | -F | | C | 1840 | .32 | .36 | | | |
| PALE | 10 | 1841E | 1845 | 1841 | S18 | W25 | .568 | 13278 | 8.9 | 40 | -N | 3 | C | | .36 | | | | DE |
| GRP61504 | 10 | 1934 | 1950 | 1940 | N05 | E19 | .325 | 13280 | 12.2 | 16 | --F | | | | .47 | | | | 4 4 4 4 |
| MCMA | 10 | 1925 | 19500 | 1941 | N05 | E19 | .325 | 13280 | 12.2 | 250 | -N | | C | 1941 | .41 | .50 | | | EV |
| BOUL | 10 | 1935 | 19500 | 1939 | N06 | E18 | .307 | 13280 | 12.2 | 150 | -F | | C | 1939 | .43 | .45 | | | |
| PALE | 10 | 1938E | 19400 | 1940U | N04 | E19 | .326 | 13280 | 12.2 | 20 | -F | 2 | C | | .62 | | | | |
| HJAN | 10 | 1938 | 19420 | | N06 | E19 | .324 | 13280 | 12.2 | 40 | -F | 2 | P | 1942 | .40 | .44 | | | |
| GRP61505 | 10 | 1945 | 1951 | 1950 | N13 | E05 | .146 | 13280 | 11.2 | 6 | --F | | | | .31 | | | | 2 2 2 3 |
| MCMA | 10 | 1941 | 19500 | | N13 | E05 | .146 | 13280 | 11.2 | 90 | -F | | C | 1947 | .41 | .50 | | | E |
| BOUL | 10 | 1949 | 19510 | 1950 | N13 | E05 | .146 | 13280 | 11.2 | 20 | -F | | C | 1950 | .21 | .22 | | | |
| | 10 | 1953 | 1957 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 506 PALE | 10 | 2002E | 2014 | 2002U | N12 | E06 | .144 | 13280 | 11.3 | 120 | --F | 2 | C | | .36 | | | | DE 1 |
| 507 PALE | 10 | 2031 | 2036 | 2032 | N08 | E18 | .308 | 13280 | 12.2 | 5 | --F | 2 | C | | .36 | | | | DE 3 |
| GRP61508 | 10 | 2044 | 2048 | 2045 | N10 | E20 | .344 | 13280 | 12.4 | 4 | --F | | | | .20 | | | | 2 2 2 3 |
| BOUL | 10 | 2043 | 2048 | 2044 | N10 | E20 | .344 | 13280 | 12.4 | 5 | -F | | C | 2044 | .21 | .23 | | | |
| PALE | 10 | 2044 | 20470 | 2045 | N10 | E20 | .344 | 13280 | 12.4 | 30 | -N | 2 | C | | .19 | | | | DE |
| GRP61509 | 10 | 2051 | 2137 | 2056 | N08 | E16 | .275 | 13280 | 12.1 | 46 | --N | | | | .93 | | | | 3 3 3 3 |
| MCMA | 10 | 2050E | 21130 | | N10 | E12 | .216 | 13280 | 11.8 | 230 | -N | | C | 2055 | 1.65 | 1.60 | | | EI |
| BOUL | 10 | 2052 | 21370 | 2056 | N07 | E18 | .307 | 13280 | 12.2 | 450 | -F | | C | 2056 | .86 | .90 | | | |
| PALE | 10 | 2055E | 20550 | 2056 | N07 | E18 | .307 | 13280 | 12.2 | 10 | -N | 2 | C | | .27 | | | | DE |
| | 10 | 2113 | 2141 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 10 | 2154 | 2209 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 10 | 2211 | 2212 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 510 PALE | 10 | 2249E | 2302 | 2249U | N03 | W20 | .345 | 13279 | 9.5 | 130 | --N | 2 | C | | .81 | | | | F 2 |
| GRP61511 | 10 | 2316 | 2335 | 2320 | N09 | E15 | .261 | 13280 | 12.1 | 19 | --F | | | | .32 | | | | 2 1 1 3 |
| BOUL | 10 | 2316 | 2335 | 2320 | N09 | E15 | .261 | 13280 | 12.1 | 19 | -F | | C | 2320 | .32 | .33 | | | |
| PALE | 10 | 2333E | 2348 | 2334 | N12 | E05 | .132 | 13280 | 11.4 | 150 | -N | 2 | C | | .55 | | | | F |
| | 10 | 2319 | 2321 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 513 VORO | 11 | 0112 | 0119 | 0113 | N06 | E22 | .373 | 13280 | 12.7 | 7 | --B | | C | 0113 | .81 | .80 | | 61 | EH 2 |
| 514 VORO | 11 | 0129 | 0136 | 0132 | N11 | E27 | .456 | 13280 | 13.1 | 7 | -B | | C | 0132 | .90 | 1.00 | | 71 | EHJ 4 |
| GRP61517 | 11 | 0325 | 0402 | 0331 | N12 | E02 | .107 | 13280 | 11.3 | 37 | 1N | | | | 2.97 | | | | 4 3 3 4 |
| CULG | 11 | 0325 | 04080 | 0329 | N12 | E02 | .107 | 13280 | 11.3 | 430 | 1N | | F | 0329 | 2.20 | 2.20 | | | |
| TEHR | 11 | 0329E | 0402 | 0329 | N12 | E03 | .114 | 13280 | 11.4 | 330 | 1B | 3 | C | | 5.07 | | | | Z U |
| PALE | 11 | 0336E | 0357 | 0336U | N12 | E02 | .107 | 13280 | 11.3 | 210 | -N | 1 | V | | 1.65 | | | | DE |
| VORO | 11 | 0343 | 0400 | | N13 | W01 | .120 | 13280 | 11.1 | 17 | 1B | | C | 0343 | 2.33 | 2.40 | | 112 | E |
| 518 TEHR | 11 | 0425 | 0443 | 0430U | N12 | E02 | .107 | 13280 | 11.3 | 18 | --F | 3 | V | | .31 | | | | F 2 |
| 519 TEHR | 11 | 0444 | 0505 | 0449 | N08 | E10 | .175 | 13280 | 11.9 | 21 | --F | 4 | C | | .64 | | | | F 2 |
| 520 TEHR | 11 | 0523 | 0547 | 0527 | N05 | W23 | .389 | 13279 | 9.5 | 24 | --N | 4 | C | | .45 | | | | F 3 |
| GRP61521 | 11 | 0614 | 0629 | 0618 | N09 | E15 | .261 | 13280 | 12.4 | 15 | --N | | | | .39 | | | | 2 2 2 3 |
| TEHR | 11 | 0611 | 0627 | 0618 | N08 | E15 | .259 | 13280 | 12.4 | 16 | -N | 4 | C | | .28 | | | | DE |
| ATHN | 11 | 0616 | 0630 | 0618 | N10 | E14 | .248 | 13280 | 12.3 | 14 | -N | 2 | C | | .50 | | | | F |
| 522 TEHR | 11 | 0631 | 0647 | 0637 | N10 | E14 | .248 | 13280 | 12.3 | 16 | --F | 4 | C | | .46 | | | | 3 |
| 523 TEHR | 11 | 0640 | 0649 | 0643 | S19 | W34 | .668 | 13278 | 8.7 | 9 | --N | 4 | V | | .15 | | | | DE 3 |
| 524 TEHR | 11 | 0707 | 0714 | 0708 | N09 | E14 | .245 | 13280 | 12.3 | 7 | --F | 4 | C | | .17 | | | | F 3 |
| GRP61525 | 11 | 0755 | 0818 | 0801 | N10 | E14 | .248 | 13280 | 12.4 | 23 | --N | | | | .35 | | | | 3 3 3 5 |
| ATHN | 11 | 0739 | 08140 | 0740 | N11 | E13 | .237 | 13280 | 12.3 | 350 | -F | 2 | C | | .33 | | | | DE |
| TEHR | 11 | 0752 | 0817 | 0801 | N09 | E15 | .261 | 13280 | 12.5 | 25 | -N | 4 | C | | .28 | | | | F |
| ATHN | 11 | 0757 | 0811 | 0800 | N10 | E13 | .232 | 13280 | 12.3 | 14 | -N | 1 | C | 0800 | .68 | .64 | | | |
| HTPR | 11 | 0809E | 0818 | | N10 | E13 | .232 | 13280 | 12.3 | 90 | -F | | C | 0810 | .10 | .10 | | | |
| 3 STATIONS REPORTING GROUP 61526. 1 STATIONS OBSERVING AND NOT REPORTING. | | | | | | | | | | | | | | | | | | | |
| GRP61526 | 11 | 0828 | 0843 | 0833 | N10 | E13 | .232 | 13280 | 12.3 | 17 | -N | | | | .91 | | | | 3 3 3 4 |
| HTPR | 11 | 0827 | 08350 | | N10 | E13 | .232 | 13280 | 12.3 | 90 | -B | | C | 0832 | 1.03 | 1.00 | | | E |
| ABST | 11 | 0828 | 0842 | 0831 | N10 | E13 | .232 | 13280 | 12.3 | 14 | -F | | C | 0831 | 1.14 | 1.20 | | | DJ |
| TEHR | 11 | 0830 | 0848 | 0835 | N09 | E14 | .245 | 13280 | 12.4 | 18 | -B | 4 | C | | .55 | | | | F H |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. COND. | OBS. TYPE | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | | | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| 526 TEHR | 11 | 0836 | 0846 | 0839 | N15 | E15 | .295 | 13280 | 12.5 | 10 | *-F | 4 | C | | .25 | | | | F 4 |
| 5 STATIONS REPORTING GROUP 61527. 0 STATIONS OBSERVING AND NOT REPORTING. | | | | | | | | | | | | | | | | | | | |
| GRP61527 | 11 | 1010 | 1050 | 1020 | N13 | W03 | .130 | 13280 | 11.2 | 40 | 1B | | | | 3.25 | | | | 3 3 3 3 |
| TEHR | 11 | 1006E | 10220 | 1012 | N13 | W01 | .120 | 13280 | 11.3 | 160 | 1B | 4 | V | | 2.31 | | | | Z |
| CATA | 11 | 1010 | 10450 | 1021 | N13 | W03 | .130 | 13280 | 11.2 | 350 | 1B | 3 | | 1021 | 3.93 | 4.09 | 3.72 | | |
| KIEV | 11 | 1015 | 1050 | 1027 | N13 | W04 | .137 | 13280 | 11.1 | 35 | 1N | | C | 1027 | 3.50 | 3.50 | | 70 | EI |
| 61527 | 11 | 1027 | 1126 | 1034 | N11 | W03 | .099 | 13280 | 11.2 | 59 | *1B | | | | 3.16 | | | | 2 2 2 5 |
| ATHN | 11 | 1027E | 1126 | 1033 | N12 | W02 | .107 | 13280 | 11.3 | 590 | 1B | 2 | C | | 2.31 | | | | U F |
| HERS | 11 | 1032E | 10390 | 1034 | N10 | W03 | .084 | 13280 | 11.2 | 70 | 1N | | P | 1034 | 4.01 | 4.00 | | | E |
| GRP61528 | 11 | 1125 | 1135 | 1130 | N04 | W28 | .469 | 13279 | 9.4 | 10 | --F | | | | .39 | | | | 2 2 2 5 |
| ATHN | 11 | 1125 | 1135 | 1129 | N04 | W28 | .469 | 13279 | 9.4 | 10 | -N | 2 | C | | .50 | | | | DE |
| RAMY | 11 | 1130E | 1134 | 1130U | N04 | W27 | .454 | 13279 | 9.5 | 40 | -F | 5 | C | | .28 | | | | DE |
| GRP61531 | 11 | 1208 | 1235 | 1211 | N13 | W04 | .137 | 13280 | 11.2 | 27 | -F | | | | .89 | | | | 3 2 2 6 |
| RAMY | 11 | 1205 | 1235 | 1208 | N13 | W06 | .157 | 13280 | 11.1 | 30 | -F | 5 | C | | .46 | | | | F |
| TEHR | 11 | 1210 | 12240 | 1214 | N13 | W01 | .120 | 13280 | 11.4 | 140 | -N | 4 | V | | 1.32 | | | | F |
| MCMA | 11 | 1223E | 1310 | | N12 | W04 | .123 | 13280 | 11.2 | 470 | -N | | C | 1225 | 1.03 | 1.00 | | | BE |
| GRP61532 | 11 | 1255 | 1311 | 1301 | N10 | E11 | .200 | 13280 | 12.4 | 16 | --N | | | | .52 | | | | 5 5 5 5 |
| MCMA | 11 | 1250 | 1315 | 1300 | N10 | E10 | .184 | 13280 | 12.3 | 25 | -B | | C | 1300 | .83 | .80 | | | EV |
| HTPR | 11 | 1256 | 1307 | 1300 | N10 | E12 | .216 | 13280 | 12.4 | 11 | -N | | C | 1301 | .31 | .30 | | | E |
| HUAN | 11 | 1257 | 1310 | 1259 | N11 | E10 | .191 | 13280 | 12.3 | 13 | -N | 1 | C | 1259 | .60 | .63 | | | |
| RAMY | 11 | 1258 | 1310 | 1303 | N10 | E10 | .184 | 13280 | 12.3 | 12 | -B | 5 | C | | .46 | | | | DE |
| TEHR | 11 | 1305E | 1312 | 1305U | N08 | E11 | .192 | 13280 | 12.4 | 70 | -N | 4 | C | | .41 | | | | F |
| GRP61533 | 11 | 1416 | 1436 | 1425 | N10 | E08 | .153 | 13280 | 12.2 | 20 | -B | | | | 1.63 | | | | 4 4 4 4 |
| MCMA | 11 | 1338 | 14200 | 1348 | N10 | E03 | .084 | 13280 | 11.9 | 420 | -N | | C | 1348 | 1.86 | 1.80 | | | EI |
| RAMY | 11 | 1408 | 1434 | 1424 | N09 | E09 | .163 | 13280 | 12.3 | 26 | -N | 5 | C | | 1.30 | | | | FDE |
| HTPR | 11 | 1417 | 14250 | | N06 | E08 | .138 | 13280 | 12.2 | 80 | -F | | C | 1420 | .21 | .20 | | | EI |
| HTPR | 11 | 1419 | 14250 | | N10 | E10 | .184 | 13280 | 12.3 | 60 | -B | | C | 1422 | 1.44 | 1.40 | | | EI |
| HUAN | 11 | 1420 | 14250 | | N11 | E09 | .176 | 13280 | 12.3 | 50 | -B | 1 | P | 1424 | 1.50 | 1.50 | | | |
| HTPR | 11 | 1420 | 14250 | | N14 | E12 | .245 | 13280 | 12.5 | 50 | -N | | C | 1422 | .21 | .20 | | | E |
| MCMA | 11 | 1420 | 1438 | 1426 | N10 | E08 | .153 | 13280 | 12.2 | 18 | 1B | | C | 1426 | 2.06 | 2.10 | | | EHV |
| GRP61534 | 11 | 1425 | 1539 | 1441 | N12 | W03 | .114 | 13280 | 11.4 | 73 | 1B | | | | 2.44 | | | | 4 3 3 4 |
| RAMY | 11 | 1425 | 1548 | 1441 | N12 | W01 | .103 | 13280 | 11.5 | 83 | 1N | 5 | C | | 3.71 | | | | FDE |
| MCMA | 11 | 1425 | 1550 | | N13 | W03 | .130 | 13280 | 11.4 | 85 | 1B | | C | 1439 | 2.06 | 2.10 | | | FIWZ |
| HTPR | 11 | 1437E | 1515 | | N12 | W05 | .133 | 13280 | 11.2 | 380 | -B | | C | 1445 | 1.55 | 1.50 | | | EFI |
| HUAN | 11 | 1437E | 15180 | | N12 | W05 | .133 | 13280 | 11.2 | 410 | -B | 1 | P | 1453 | 1.10 | 1.14 | | | E |
| GRP61535 | 11 | 1621 | 1634 | 1627 | N11 | E07 | .147 | 13280 | 12.2 | 13 | --F | | | | .72 | | | | 2 2 2 3 |
| MCMA | 11 | 1621 | 1635 | 1627 | N11 | E06 | .133 | 13280 | 12.1 | 14 | -N | | C | 1627 | .83 | .80 | | | E |
| HJAN | 11 | 1624E | 1632 | | N11 | E07 | .147 | 13280 | 12.2 | 80 | -F | 1 | C | 1626 | .60 | .62 | | | |
| GRP61536 | 11 | 1640 | 1710 | 1642 | N11 | E06 | .133 | 13280 | 12.1 | 30 | --N | | | | .83 | | | | 2 1 1 4 |
| MCMA | 11 | 1640 | 17100 | 1642 | N11 | E06 | .133 | 13280 | 12.1 | 300 | -N | | C | 1642 | .83 | .80 | | | E |
| PALE | 11 | 1657E | 1705 | 1657U | N11 | E09 | .176 | 13280 | 12.4 | 80 | -F | 2 | C | | .36 | | | | DE |
| GRP61537 | 11 | 1645 | 1717 | 1700 | N12 | W06 | .145 | 13280 | 11.2 | 32 | --F | | | | .72 | | | | 2 2 2 3 |
| MCMA | 11 | 1645 | 17100 | 1659 | N12 | W06 | .145 | 13280 | 11.2 | 250 | -F | | C | 1659 | .72 | .70 | | | E |
| PALE | 11 | 1657E | 1717 | 1700 | N12 | W06 | .145 | 13280 | 11.3 | 200 | -F | 2 | C | | .72 | | | | DE |
| GRP61538 | 11 | 1728 | 1746 | 1733 | N11 | E07 | .147 | 13280 | 12.3 | 18 | -B | | | | 1.73 | | | | 4 3 3 4 |
| PALE | 11 | 1725 | 17430 | 1732 | N11 | E08 | .161 | 13280 | 12.3 | 180 | 1B | 2 | C | | 2.71 | | | | U |
| MCMA | 11 | 1729E | 17450 | | N11 | E05 | .120 | 13280 | 12.1 | 160 | -B | | P | 1733 | .83 | .80 | | | E |
| RAMY | 11 | 1731 | 1746 | 1734 | N10 | E08 | .153 | 13280 | 12.3 | 15 | -B | 4 | C | | 1.65 | | | | F |
| HUAN | 11 | 1745E | 17460 | | N11 | E06 | .133 | 13280 | 12.2 | 10 | -N | 1 | P | 1745 | 1.10 | 1.14 | | | |
| GRP61539 | 11 | 1755 | 1807 | 1801 | N11 | E06 | .133 | 13280 | 12.2 | 12 | --F | | | | .60 | | | | 2 2 2 3 |
| MCMA | 11 | 1755E | 1805 | | N11 | E05 | .120 | 13280 | 12.1 | 110 | -N | | P | 1757 | .83 | .80 | | | E |
| PALE | 11 | 1801E | 1807 | 1801U | N11 | E07 | .147 | 13280 | 12.3 | 60 | -F | 1 | C | | .36 | | | | DE |
| GRP61540 | 11 | 1820 | 1835 | 1825 | N11 | E07 | .147 | 13280 | 12.3 | 16 | --F | | | | .46 | | | | 2 2 2 3 |
| RAMY | 11 | 1820 | 1840 | 1824 | N10 | E06 | .123 | 13280 | 12.2 | 20 | -F | 4 | C | | .37 | | | | F |
| PALE | 11 | 1822E | 1832 | 1825 | N11 | E08 | .161 | 13280 | 12.4 | 100 | -F | 2 | C | | .55 | | | | DE |
| GRP61541 | 11 | 1823 | 1855 | 1831 | N12 | W07 | .157 | 13280 | 11.2 | 32 | --N | | | | .69 | | | | 3 2 2 4 |
| PALE | 11 | 1823 | 1854 | 1831 | N12 | W07 | .157 | 13280 | 11.2 | 31 | -N | 2 | C | | .55 | | | | DE |
| HUAN | 11 | 1826E | 18280 | | N12 | W07 | .157 | 13280 | 11.2 | 20 | -F | 1 | P | | | | | | E |
| MCMA | 11 | 1829E | 18550 | | N12 | W08 | .170 | 13280 | 11.2 | 260 | -N | | P | 1840 | .83 | .80 | | | E |
| 542 PALE | 11 | 1952 | 2011 | 1957 | N11 | E07 | .147 | 13280 | 12.4 | 19 | --F | 2 | C | | .63 | | | | DE 1 |
| 543 PALE | 11 | 2038 | 2054 | 2044 | N07 | E02 | .038 | 13280 | 12.0 | 16 | --F | 1 | C | | .63 | | | | DE 1 |
| | 11 | 2111 | 2141 | NO FLARE PATROL | | | | | | | | | | | | | | | |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURA-TION | IM-POR-TANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| 544 HUAN | 11 | 2157 | 2208 | 2201 | N09 | E04 | .085 | 13280 | 12.2 | 11 | --F | 1 | C | | | | | | 2 |
| | 11 | 2212 | 2215 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 545 VORO | 12 | 0007 | 0044 | 0008 | N12 | W11 | .214 | 13280 | 11.2 | 37 | --B | | C | 0008 | .90 | .90 | | 73 | EJ 2 |
| GRP61546 | 12 | 0125 | 0154 | 0127 | N12 | W10 | .199 | 13280 | 11.3 | 29 | --N | | | | .45 | | | | 2 1 1 4 |
| PALE | 12 | 0125 | 01540 | 0127 | N12 | W10 | .199 | 13280 | 11.3 | 290 | -N | 1 | C | | .45 | | | | F |
| MANI | 12 | 0137E | 02060 | 0145U | N10 | W10 | .185 | 13280 | 11.3 | 290 | -N | 2 | | 0145 | .83 | .84 | | | F |
| 547 PALE | 12 | 0129 | 01330 | 0133U | N09 | E17 | .294 | 13280 | 13.3 | 40 | --N | 2 | C | | .36 | | | | 4 |
| GRP61548 | 12 | 0137 | 0154 | 0139 | N08 | E02 | .048 | 13280 | 12.2 | 17 | -N | | | | 1.27 | | | | 3 3 3 4 |
| VORO | 12 | 0136 | 0157 | 0138 | N08 | E02 | .048 | 13280 | 12.2 | 21 | -B | | C | 0138 | 1.70 | 1.70 | | 74 | EJL |
| MANI | 12 | 0137E | 01480 | 0138U | N07 | E02 | .038 | 13280 | 12.2 | 110 | -N | 2 | | 0138 | .93 | .93 | | | F |
| PALE | 12 | 0137 | 0151 | 0142 | N07 | E02 | .038 | 13280 | 12.2 | 14 | -N | 1 | C | | 1.18 | | | | F |
| PALE | 12 | 0145E | 0219 | 0149 | N12 | E04 | .124 | 13280 | 12.4 | 340 | -N | 2 | C | | .72 | | | | DE |
| 61548 | 12 | 0201 | 0237 | 0212 | N10 | E03 | .085 | 13280 | 12.3 | 36 | *-B | | | | .76 | | | | 2 2 2 3 |
| VORO | 12 | 0201 | 0235 | 0207 | N10 | E03 | .085 | 13280 | 12.3 | 34 | -B | | C | 0207 | .90 | .90 | | 77 | EJL |
| MANI | 12 | 0216E | 02380 | 0217 | N09 | E02 | .061 | 13280 | 12.2 | 220 | -N | 2 | | 0217 | .62 | .62 | | | F |
| GRP61550 | 12 | 0321 | 0339 | 0329 | S20 | W47 | .799 | 13278 | 8.6 | 18 | --F | | | | .44 | | | | 2 2 2 3 |
| TEHR | 12 | 0321 | 0334 | 0326 | S20 | W46 | .790 | 13278 | 8.7 | 13 | -F | 3 | C | | .36 | | | | |
| MANI | 12 | 0332E | 0344 | 0332U | S20 | W47 | .799 | 13278 | 8.6 | 120 | -N | 2 | | 0332 | .52 | .72 | | | |
| 553 TEHR | 12 | 0425 | 0443 | 0431 | N12 | E01 | .104 | 13280 | 12.3 | 18 | --F | 3 | C | | .45 | | | | F 3 |
| 554 MANI | 12 | 0448E | 0517 | 0448U | N11 | W15 | .269 | 13280 | 11.1 | 290 | --F | 2 | | 0448 | .52 | .54 | | | 2 |
| 555 MANI | 12 | 0448E | 0514 | 0452U | N07 | E00 | .016 | 13280 | 12.2 | 260 | --N | 2 | | 0452 | .72 | .72 | | | F 2 |
| 556 MANI | 12 | 0448E | 0507 | 0453 | S19 | W45 | .776 | 13278 | 8.8 | 190 | --F | 2 | | 0453 | .52 | .69 | | | 2 |
| GRP61557 | 12 | 0552 | 0603 | 0554 | N07 | E00 | .016 | 13280 | 12.2 | 11 | --F | | | | .39 | | | | 2 2 2 3 |
| TEHR | 12 | 0551 | 0605 | 0554 | N05 | E00 | .019 | 13280 | 12.2 | 14 | -N | 4 | C | | .27 | | | | DE |
| ATHN | 12 | 0552 | 0600 | 0554 | N08 | E00 | .033 | 13280 | 12.2 | 8 | -F | 2 | C | | .50 | | | | DE |
| 6 STATIONS REPORTING GROUP 61559. 1 STATIONS OBSERVING AND NOT REPORTING. | | | | | | | | | | | | | | | | | | | |
| GRP61559 | 12 | 0718 | 0755 | 0724 | N09 | W02 | .061 | 13280 | 12.2 | 37 | --N | | | | .60 | | | | 5 5 5 6 |
| HTPR | 12 | 0714 | 0751 | 0720 | N08 | W02 | .048 | 13280 | 12.2 | 37 | -F | | C | 0714 | .21 | .20 | | | EK |
| TEHR | 12 | 0718 | 0803 | 0723 | N10 | E01 | .070 | 13280 | 12.4 | 45 | -B | 4 | W | | .41 | | | | DE Z |
| BUCA | 12 | 0720 | 0805 | | N10 | W03 | .085 | 13280 | 12.1 | 45 | -N | | P | 0732 | 1.10 | 1.10 | | | E |
| ATHN | 12 | 0721 | 0805 | 0724 | N10 | W01 | .070 | 13280 | 12.2 | 44 | -N | 3 | W | | .50 | | | | F |
| ABST | 12 | 0726E | 0732 | 0728 | N07 | W06 | .105 | 13280 | 11.9 | 60 | -F | | P | 0728 | .79 | .80 | | | DJ |
| 61559 | 12 | 0719 | 0755 | 0736 | N10 | W02 | .076 | 13280 | 12.2 | 39 | *-F | | | | 1.22 | | | | 4 1 1 7 |
| HTPR | 12 | 0716 | 0730 | 0720 | N12 | W15 | .275 | 13280 | 11.2 | 14 | -F | | C | 0720 | .31 | .30 | | | |
| ABST | 12 | 0719 | 0758 | 0736 | N10 | W02 | .076 | 13280 | 12.2 | 39 | -F | | C | 0736 | 1.22 | 1.30 | | | FJ |
| ATHN | 12 | 0720 | 0759 | 0724 | N01 | W12 | .225 | 13280 | 11.4 | 38 | -N | 2 | C | | .66 | | | | F |
| MANI | 12 | 0755E | 07580 | 0755U | N10 | W01 | .070 | 13280 | 12.3 | 30 | -N | 1 | | 0755 | .72 | .72 | | | F |
| GRP61561 | 12 | 0813 | 0837 | 0816 | N11 | W03 | .100 | 13280 | 12.1 | 24 | --F | | | | .37 | | | | 3 2 2 4 |
| ATHN | 12 | 0812 | 0830 | 0814 | N10 | W02 | .076 | 13280 | 12.2 | 18 | -F | | | 0814 | .17 | .16 | | | |
| ATHN | 12 | 0812 | 08300 | 0813 | N11 | W01 | .087 | 13280 | 12.3 | 180 | -F | 2 | C | | .17 | | | | F |
| TEHR | 12 | 0813 | 0837 | 0817 | N11 | W04 | .110 | 13280 | 12.0 | 24 | -F | 4 | C | | .56 | | | | U F |
| ABST | 12 | 0820E | 08320 | 0825 | N10 | W15 | .265 | 13280 | 11.2 | 120 | -F | | P | 0825 | 1.05 | 1.10 | | | EJ |
| GRP61562 | 12 | 0827 | 0840 | 0830 | S19 | W47 | .795 | 13278 | 8.6 | 13 | --F | | | | .94 | | | | 2 2 2 4 |
| ABST | 12 | 0825 | 08350 | 0826 | S20 | W50 | .826 | 13278 | 8.6 | 110 | -F | | P | 0826 | .87 | 1.60 | | | DJ |
| TEHR | 12 | 0829 | .0840 | 0833 | S18 | W44 | .762 | 13278 | 9.1 | 11 | -F | 4 | C | | 1.00 | | | | |
| GRP61564 | 12 | 1027 | 1037 | 1032 | N11 | W10 | .191 | 13280 | 11.7 | 10 | --F | | | | .15 | | | | 3 3 3 6 |
| HTPR | 12 | 1025 | 1034 | 1029 | N10 | W10 | .185 | 13280 | 11.7 | 9 | -F | | C | 1029 | .10 | .10 | | | E |
| TEHR | 12 | 1027 | 1040 | 1031 | N12 | W10 | .199 | 13280 | 11.7 | 13 | -F | 4 | C | | .19 | | | | F |
| ATHN | 12 | 1030 | 1037 | 1037 | N12 | W11 | .214 | 13280 | 11.6 | 7 | -N | 2 | C | | .17 | | | | DE |
| GRP61565 | 12 | 1046 | 1108 | 1051 | N10 | W02 | .076 | 13280 | 12.3 | 22 | --F | | | | .21 | | | | 3 3 3 5 |
| ATHN | 12 | 1041 | 1049 | 1045 | N11 | W06 | .134 | 13280 | 12.0 | 8 | -N | 1 | C | | .17 | | | | DE |
| RAMY | 12 | 1049E | 11100 | 1051 | N10 | W03 | .085 | 13280 | 12.2 | 210 | -F | 5 | W | | .28 | | | | FDE |
| TEHR | 12 | 1049 | 1105 | 1056 | N11 | E02 | .092 | 13280 | 12.6 | 16 | -F | 4 | C | | .19 | | | | F |
| ATHN | 12 | 1050 | 10570 | 1054 | N06 | W04 | .069 | 13280 | 12.2 | 70 | -N | 2 | C | | .17 | | | | F |
| GRP61566 | 12 | 1130 | 1217 | 1147 | N11 | W05 | .121 | 13280 | 12.1 | 47 | 1B | | | | 4.04 | | | | 4 4 4 4 |
| KIEV | 12 | 1120 | 1202 | 1150 | N13 | W05 | .147 | 13280 | 12.1 | 42 | 2B | | C | 1150 | 6.80 | 6.80 | | 80 | EI |
| TEHR | 12 | 1130 | 1145 | 1140 | N12 | W12 | .229 | 13280 | 11.6 | 15 | -N | 4 | C | | .56 | | | | DE |
| RAMY | 12 | 1133E | 12370 | 1148U | N08 | W05 | .093 | 13280 | 12.1 | 640 | 1N | 4 | C | | 4.64 | | | | F |
| TEHR | 12 | 1133 | 1219 | 1144 | N10 | E02 | .076 | 13280 | 12.6 | 46 | 1N | 4 | C | | 2.31 | | | | F |
| HTPR | 12 | 1135 | 1210 | 1146 | N10 | W05 | .110 | 13280 | 12.1 | 35 | -B | | C | 1146 | 1.86 | 1.80 | | | EFI |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| GRP61567 | 12 | 1149 | 1211 | 1155 | N14 | W16 | .303 | 13280 | 11.3 | 22 | --N | | | | .83 | | | | 2 2 2 4 |
| RAMY | 12 | 1148 | 1214 | 1152 | N14 | W18 | .332 | 13280 | 11.1 | 26 | -N | 5 | C | | 1.02 | | | | F |
| TEHR | 12 | 1149 | 1207 | 1158 | N14 | W14 | .274 | 13280 | 11.4 | 18 | -N | 4 | C | | .64 | | | | F |
| GRP61568 | 12 | 1311 | 1332 | 1317 | N10 | W04 | .097 | 13280 | 12.2 | 21 | -N | | | | 1.02 | | | | 3 3 3 3 |
| TEHR | 12 | 1307 | 1336 | 1320 | N10 | W03 | .085 | 13280 | 12.3 | 29 | -N | 4 | C | | 1.28 | | | | F |
| HTPR | 12 | 1310 | 1327 | 1313 | N10 | W05 | .110 | 13280 | 12.2 | 17 | -F | | C | 1313 | .21 | .20 | | | EK |
| RAMY | 12 | 1315 | 1334 | 1318 | N11 | W04 | .110 | 13280 | 12.3 | 19 | -N | 4 | C | | 1.58 | | | | F |
| GRP61569 | 12 | 1426 | 1449 | 1433 | N13 | W19 | .341 | 13280 | 11.2 | 23 | --F | | | | .43 | | | | 3 3 3 3 |
| HTPR | 12 | 1425 | 1442 | 1432 | N13 | W20 | .356 | 13280 | 11.1 | 17 | -F | | C | 1432 | .21 | .20 | | | E |
| ATHN | 12 | 1426 | 1440 | 1434 | N12 | W18 | .321 | 13280 | 11.3 | 14 | -F | 2 | C | | .33 | | | | DE |
| RAMY | 12 | 1426 | 1505D | 1433U | N14 | W20 | .362 | 13280 | 11.1 | 39D | -F | 5 | C | | .74 | | | | DE |
| GRP61570 | 12 | 1441 | 1528 | 1523 | N07 | W15 | .258 | 13280 | 11.5 | 47 | --F | | | | .21 | | | | 2 2 1 4 |
| HUAN | 12 | 1405E | 1526D | | N04 | W10 | .177 | 13280 | 11.8 | 81D | -N | 1 | P | | | | | | |
| HTPR | 12 | 1517 | 1528 | 1523 | N10 | W20 | .345 | 13280 | 11.1 | 11 | -F | | C | 1518 | .21 | .20 | | | K |
| GRP61571 | 12 | 1501 | 1519 | 1506 | N11 | W20 | .348 | 13280 | 11.1 | 18 | --F | | | | .25 | | | | 3 3 3 4 |
| HUAN | 12 | 1500 | 1525D | | N11 | W21 | .364 | 13280 | 11.1 | 26D | -F | 1 | P | 1505 | .20 | .22 | | | D |
| HTPR | 12 | 1501 | 1511 | 1504 | N10 | W20 | .345 | 13280 | 11.1 | 10 | -F | | C | 1504 | .21 | .20 | | | |
| ATHN | 12 | 1503 | 1510D | 1507 | N11 | W18 | .317 | 13280 | 11.3 | 7D | -N | 2 | C | | .33 | | | | F |
| GRP61572 | 12 | 1609 | 1626 | 1614 | N09 | W16 | .278 | 13280 | 11.5 | 17 | --F | | | | .43 | | | | 2 2 2 2 |
| HTPR | 12 | 1600 | 1607 | 1603 | N08 | W20 | .341 | 13280 | 11.2 | 7 | -F | | C | 1603 | .10 | .10 | | | |
| HTPR | 12 | 1601 | 1622 | 1603 | N05 | W12 | .208 | 13280 | 11.8 | 21 | -F | | C | 1603 | .10 | .10 | | | K |
| HTPR | 12 | 1602 | 1625 | 1604 | N07 | W18 | .307 | 13280 | 11.3 | 23 | -F | | C | 1604 | .10 | .10 | | | K |
| RAMY | 12 | 1607 | 1626 | 1614 | N09 | W16 | .278 | 13280 | 11.5 | 19 | -F | 5 | C | | .65 | | | | F |
| HTPR | 12 | 1610 | 1625D | 1613 | N13 | W15 | .281 | 13280 | 11.5 | 15D | -F | | C | 1613 | .21 | .20 | | | EK |
| 573 PALE | 12 | 1649 | 1654 | 1651 | N12 | W20 | .352 | 13280 | 11.2 | 5 | --F | 2 | C | | .36 | | | | F 2 |
| 574 PALE | 12 | 1726 | 1753 | 1732 | N10 | W06 | .124 | 13280 | 12.3 | 27 | -N | 2 | C | | 1.80 | | | | DE 1 |
| 575 PALE | 12 | 1833 | 1851 | 1843 | N12 | W18 | .321 | 13280 | 11.4 | 18 | --F | 3 | C | | .45 | | | | F 2 |
| GRP61576 | 12 | 1858 | 1928 | 1908 | N11 | W07 | .147 | 13280 | 12.3 | 30 | --N | | | | .57 | | | | 2 2 2 2 |
| PALE | 12 | 1858 | 1927 | 1905 | N11 | W08 | .162 | 13280 | 12.2 | 29 | -N | 3 | C | | .63 | | | | DE |
| RAMY | 12 | 1901E | 1928D | 1910U | N10 | W06 | .124 | 13280 | 12.3 | 27D | -N | 4 | C | | .50 | | | | DE |
| 577 PALE | 12 | 2205 | 2218 | 2209 | N08 | W22 | .373 | 13280 | 11.3 | 13 | --F | 3 | C | | .55 | | | | F 2 |
| 578 PALE | 12 | 2211 | 2218D | 2214 | N13 | W09 | .195 | 13280 | 12.2 | 7D | --F | 3 | C | | .36 | | | | 2 |
| 3 STATIONS REPORTING GROUP 61579. 2 STATIONS OBSERVING AND NOT REPORTING. | | | | | | | | | | | | | | | | | | | |
| GRP61579 | 13 | 0509 | 0552 | 0518 | N11 | W13 | .238 | 13280 | 12.2 | 43 | 1B | | | | 2.09 | | | | 3 3 3 5 |
| TEHR | 13 | 0453 | 0558 | 0519 | N12 | W14 | .260 | 13280 | 12.2 | 65 | 1B | 4 | C | | 2.73 | | | | U |
| ATHN | 13 | 0508 | 0555 | 0512 | N12 | W12 | .229 | 13280 | 12.3 | 47 | -N | 3 | V | | 1.32 | | | | U F |
| TACH | 13 | 0510 | 0544 | 0522 | N09 | W13 | .229 | 13280 | 12.2 | 34 | 1B | | V | 0522 | 2.21 | 2.36 | | 102 | CEKWZ |
| 579 ATHN | 13 | 0513 | 0521 | 0516 | N08 | W23 | .389 | 13280 | 11.5 | 8 | *-F | 3 | V | | .50 | | | | F 5 |
| GRP61580 | 13 | 0656 | 0714 | 0700 | N12 | W17 | .306 | 13280 | 12.0 | 18 | --F | | | | .62 | | | | 3 3 3 6 |
| ATHN | 13 | 0654 | 0708 | 0658 | N12 | W15 | .275 | 13280 | 12.2 | 14 | -F | 1 | | 0658 | .52 | .50 | | | |
| TEHR | 13 | 0655 | 0715 | 0658 | N13 | W17 | .311 | 13280 | 12.0 | 21 | -F | 4 | C | | .55 | | | | F |
| ABST | 13 | 0700 | 0715 | 0703 | N12 | W19 | .337 | 13280 | 11.9 | 18 | -F | | C | 0703 | .79 | .80 | | | DJ |
| GRP61583 | 13 | 0840 | 0907 | 0844 | N14 | W31 | .523 | 13280 | 11.0 | 27 | --F | | | | .85 | | | | 4 4 4 8 |
| HTPR | 13 | 0838 | 0859 | 0841 | N13 | W32 | .534 | 13280 | 11.0 | 21 | -F | | C | 0841 | .41 | .50 | | | E |
| ARCE | 13 | 0838E | 0925D | | N12 | W30 | .503 | 13280 | 11.1 | 47D | -F | | C | 0848 | .75 | .90 | | | |
| BUCA | 13 | 0840 | 0900 | | N14 | W30 | .508 | 13280 | 11.1 | 20 | -F | | C | 0842 | 1.10 | 1.20 | | | |
| ABST | 13 | 0845 | 0902 | 0847 | N15 | W30 | .512 | 13280 | 11.1 | 17 | -N | | C | 0847 | 1.14 | 1.40 | | | FJ |
| 10 STATIONS REPORTING GROUP 61584. 1 STATIONS OBSERVING AND NOT REPORTING. | | | | | | | | | | | | | | | | | | | |
| GRP61584 | 13 | 0853 | 1112 | 0939 | N12 | W26 | .444 | 13280 | 11.4 | 142 | 1B | | | | 7.42 | | | | 3 3 3 6 |
| TEHR | 13 | 0840 | 1140 | 0936 | N13 | W25 | .432 | 13280 | 11.5 | 180 | 1B | 4 | C | | 4.93 | | | | U F |
| HTPR | 13 | 0855 | 1043 | 0936 | N13 | W27 | .462 | 13280 | 11.3 | 110 | -B | | C | 0936 | .83 | .90 | | | UZ |
| KHAR | 13 | 0855E | 1110D | 0945 | N12 | W26 | .444 | 13280 | 11.4 | 135D | 3N | | P | 0950 | 16.50 | 18.40 | 2.40 | | EKQTZ |
| TEHR | 13 | 0926E | 0950D | 0934 | N10 | W25 | .424 | 13280 | 11.5 | 24D | -N | 3 | V | | .52 | | | | F |
| 61584 | 13 | 0925 | 1125 | 0958 | N11 | W22 | .380 | 13280 | 11.7 | 120 | *1N | | | | 4.65 | | | | 3 3 3 8 |
| ARCE | 13 | 0916E | 1000D | | N10 | W20 | .345 | 13280 | 11.9 | 44D | 2N | | C | 0950 | 7.37 | 8.30 | | | FI |
| HTPR | 13 | 0933 | 1115 | 0956 | N08 | W24 | .405 | 13280 | 11.6 | 102 | -N | | C | 0956 | .41 | .40 | | | |
| CATA | 13 | 0950E | 1030D | 1000 | N13 | W22 | .387 | 13280 | 11.8 | 40D | 2B | 3 | | 1000 | 6.18 | 6.91 | 2.95 | | |
| HTPR | 13 | 1115 | 1135 | 1116 | N11 | W25 | .426 | 13280 | 11.6 | 20 | -N | | C | 1116 | .21 | .20 | | | E |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| 61584 | 13 | 0945 | 1048 | 1008 | N12 | W28 | .474 | 13280 | 11.3 | 63 | *1N | | | | 3.03 | | | | 3 3 3 7 |
| HTPR | 13 | 0945 | 1055 | 1005 | N17 | W32 | .547 | 13280 | 11.0 | 70 | -F | | C | 1005 | .62 | .70 | | | |
| KIEV | 13 | 0954E | 1055 | 1010 | N10 | W25 | .424 | 13280 | 11.5 | 61D | 2N | | C | 1010 | 6.00 | 6.80 | | 60 | EI |
| TEHR | 13 | 0959E | 1034 | 1009 | N10 | W26 | .439 | 13280 | 11.5 | 35D | 1N | 3 | V | | 2.48 | | | | F Z |
| 61584 | 13 | 0851 | 1102 | 0857 | N12 | W24 | .414 | 13280 | 11.6 | 131 | *-N | | | | .84 | | | | 3 3 3 8 |
| HTPR | 13 | 0847 | 1105 | 0856 | N12 | W22 | .383 | 13280 | 11.7 | 138 | -N | | C | 0856 | .62 | .60 | | | U |
| ATHN | 13 | 0848 | 0855D | 0855D | N11 | W25 | .426 | 13280 | 11.5 | 7D | -F | 3 | C | | .83 | | | | F |
| HTPR | 13 | 0850 | 1100 | 0857 | N11 | W29 | .486 | 13280 | 11.2 | 130 | -B | | C | 0857 | .10 | .10 | | | DZ |
| ABST | 13 | 0854 | 0927D | 0858 | N13 | W22 | .387 | 13280 | 11.7 | 33D | -F | | P | 0858 | .96 | 1.10 | | | EJ |
| 61584 | 13 | 0911 | 0928 | 0914 | N13 | W25 | .432 | 13280 | 11.5 | 17 | *-F | | | | .69 | | | | 2 2 2 7 |
| TEHR | 13 | 0905E | 0918D | 0909U | N12 | W22 | .383 | 13280 | 11.7 | 13D | -F | 4 | V | | .50 | | | | F |
| ABST | 13 | 0916 | 0928D | 0918 | N14 | W27 | .465 | 13280 | 11.4 | 12D | -F | | P | 0918 | .87 | 1.00 | | | DJ |
| 61584 | 13 | 0850 | 1100 | 1002 | N11 | W29 | .486 | 13280 | 11.2 | 130 | *-B | | | | .31 | | | | 3 1 1 9 |
| HTPR | 13 | 0850 | 1100 | 0927 | N11 | W29 | .486 | 13280 | 11.2 | 130 | -B | | C | 0927 | .31 | .30 | | | EMZ |
| LOCA | 13 | 1015E | 1100 | | N10 | W23 | .393 | 13280 | 11.7 | 45D | 2N | | P | 1020 | 5.70 | 6.40 | | | B |
| RAMY | 13 | 1036E | 1059 | 1036U | N10 | W24 | .408 | 13280 | 11.6 | 23D | -F | 3 | C | | .84 | | | | DE |
| 586 RAMY | 13 | 1628 | 1638 | 1630 | N06 | W18 | .307 | 13280 | 12.3 | 10 | --F | 4 | C | | .28 | | | | DE 3 |
| GRP61587 | 13 | 1730 | 1737 | 1732 | N10 | W22 | .377 | 13280 | 12.1 | 7 | --F | | | | .29 | | | | 2 2 2 4 |
| BOUL | 13 | 1729 | 1738 | 1732 | N10 | W22 | .377 | 13280 | 12.1 | 9 | -F | | C | 1732 | .21 | .23 | | | |
| PALE | 13 | 1730 | 1735 | 1731 | N10 | W22 | .377 | 13280 | 12.1 | 5 | -F | 3 | C | | .36 | | | | F U |
| GRP61588 | 13 | 1741 | 1804 | 1746 | N10 | W22 | .377 | 13280 | 12.1 | 23 | --F | | | | .34 | | | | 2 2 2 4 |
| BOUL | 13 | 1741 | 1805 | 1745 | N10 | W22 | .377 | 13280 | 12.1 | 24 | -F | | C | 1745 | .32 | .35 | | | |
| PALE | 13 | 1743E | 1802 | 1747 | N09 | W22 | .375 | 13280 | 12.1 | 19D | -F | 3 | C | | .36 | | | | F U |
| 589 BOUL | 13 | 1923 | 19410 | 1927 | S18 | W67 | .941 | 13278 | 8.8 | 18D | --F | | C | 1927 | .75 | 1.85 | | | 2 |
| | 13 | 1941 | 1957 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 13 | 2013 | 2014 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 590 PALE | 13 | 2024 | 2039 | 2028 | N10 | W31 | .514 | 13280 | 11.5 | 15 | --F | 3 | C | | .36 | | | | F 1 |
| 591 PALE | 13 | 2221E | 2228D | 2222 | N10 | W31 | .514 | 13280 | 11.6 | 7D | --F | 3 | C | | .63 | | | | DE 2 |
| GRP61592 | 13 | 2246 | 2328 | 2301 | N11 | W27 | .456 | 13280 | 11.9 | 42 | -N | | | | 1.13 | | | | 3 3 3 4 |
| PALE | 13 | 2241 | 2256 | 2243 | N12 | W31 | .518 | 13280 | 11.6 | 15 | -F | 2 | C | | .27 | | | | F |
| PALE | 13 | 2251 | 2328 | 2302 | N10 | W24 | .408 | 13280 | 12.2 | 37 | -N | 2 | C | | .91 | | | | U H |
| MANI | 13 | 2258E | 2318D | 2300U | N11 | W24 | .411 | 13280 | 12.2 | 20D | -N | 1 | | 2300 | 1.13 | 1.24 | | | FH |
| BOUL | 13 | 2302E | 2315D | 2302E | N11 | W27 | .456 | 13280 | 11.9 | 13D | -N | | C | 2302 | 1.07 | 1.20 | | | |
| PALE | 13 | 2303 | 2311 | 2305 | N09 | W39 | .626 | 13280 | 11.0 | 8 | -F | 2 | C | | .27 | | | | F |
| 593 PALE | 13 | 2250 | 2358 | 2254 | S17 | E15 | .460 | 13285 | 15.1 | 68 | --F | 2 | C | | .19 | | | | 3 |
| GRP61594 | 14 | 0554 | 0622 | 0555 | N13 | W35 | .576 | 13280 | 11.6 | 28 | --F | | | | .96 | | | | 3 3 3 5 |
| MITK | 14 | 0552 | 0609 | 0554 | N13 | W36 | .590 | 13280 | 11.5 | 17 | -F | | C | 0554 | .62 | .80 | | | EH |
| ATHN | 14 | 0553E | 0601D | 0554U | N12 | W33 | .546 | 13280 | 11.8 | 8D | -F | 1 | C | | .50 | | | | U |
| ABST | 14 | 0557 | 0634D | 0558 | N13 | W35 | .576 | 13280 | 11.6 | 37D | 1N | | P | 0558 | 1.75 | 2.30 | | | BEJ |
| GRP61595 | 14 | 0955 | 0958 | 0956 | N13 | W36 | .590 | 13280 | 11.7 | 3 | --F | | | | .28 | | | | 2 2 2 6 |
| HTPR | 14 | 0953 | 0956 | 0954 | N13 | W38 | .617 | 13280 | 11.6 | 3 | -F | | C | 0954 | .21 | .30 | | | E |
| ATHN | 14 | 0956 | 0959 | 0957 | N13 | W34 | .563 | 13280 | 11.9 | 3 | -F | 1 | | 0957 | .34 | .35 | | | |
| GRP61598 | 14 | 1624 | 1652 | 1631 | N10 | W51 | .773 | 13280 | 10.9 | 28 | -B | | | | .71 | | | | 5 4 4 5 |
| HTPR | 14 | 1623 | 1625D | 1624 | N11 | W51 | .773 | 13280 | 10.9 | 3D | -B | | C | 1624 | .52 | .80 | | | |
| RAMY | 14 | 1623 | 1652 | 1631 | N08 | W51 | .773 | 13280 | 10.9 | 29 | -B | 3 | C | | 1.29 | | | | DE |
| HUAN | 14 | 1625 | 1649 | 1629 | N10 | W52 | .784 | 13280 | 10.8 | 24 | -N | 1 | C | 1629 | .40 | .66 | | | |
| BOUL | 14 | 1638E | 1654 | 1638E | N10 | W50 | .762 | 13280 | 10.9 | 16D | -N | | C | 1638 | .64 | 1.00 | | | |
| PALE | 14 | 1640E | 1652 | 1646 | N10 | W50 | .762 | 13280 | 10.9 | 12D | -B | 2 | C | | .36 | | | | |
| | 14 | 2005 | 2012 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 599 PALE | 14 | 2154 | 2206D | 2200 | N15 | W53 | .796 | 13280 | 10.9 | 12D | --F | 2 | C | | .83 | | | | DE 1 |
| | 14 | 2206 | 2215 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 601 TEHR | 15 | 0315E | 0345D | 0331 | N11 | W39 | .628 | 13280 | 12.2 | 30D | --F | 2 | C | | .36 | | | | F 3 |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MONATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME — UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH HG | MAX. INT. % | |
| GRP61602 | 15 | 0811 | 0902 | 0817 | N09 | W43 | .679 | 13280 | 12.1 | 51 | 2N | | | | 5.29 | | | | 5 5 5 5 |
| HTPR | 15 | 0809 | 0850 | 0815 | N10 | W42 | .666 | 13280 | 12.2 | 41 | 1B | | C | 0815 | 1.65 | 2.20 | | | U |
| KHAR | 15 | 0810E | 0920 | 0816 | N08 | W43 | .678 | 13280 | 12.1 | 70D | 3N | | P | 0816 | 8.80 | 12.70 | | | CETWXZ |
| ABST | 15 | 0810 | 0855D | 0822 | N12 | W45 | .705 | 13280 | 12.0 | 45D | 2N | | P | 0822 | 8.70 | 12.40 | | 88 | FIJK |
| MANI | 15 | 0812 | 0824D | 0818 | N08 | W42 | .666 | 13280 | 12.2 | 12D | 1N | 2 | | 0818 | 2.99 | 4.03 | | | F |
| HTPR | 15 | 0813 | 0855 | 0822 | N13 | W47 | .729 | 13280 | 11.8 | 42 | -F | | C | 0822 | .83 | 1.10 | | | |
| TEHR | 15 | 0815E | 0853 | 0816U | N07 | W40 | .639 | 13280 | 12.3 | 44D | 1B | 4 | V | | 4.29 | | | | U |
| TEHR | 15 | 0903E | 0923 | 0905U | N10 | W42 | .666 | 13280 | 12.2 | 20D | -F | 4 | V | | .25 | | | | DE |
| GRP61606 | 15 | 1154 | 1214 | 1159 | N10 | W46 | .716 | 13280 | 12.0 | 20 | --F | | | | .36 | | | | 3 3 2 6 |
| TEHR | 15 | 1153 | 1218 | 1201 | N10 | W43 | .679 | 13280 | 12.3 | 25 | -F | 4 | V | | .50 | | | | F |
| HTPR | 15 | 1154 | 1210 | 1157 | N09 | W47 | .728 | 13280 | 12.0 | 16 | -F | | C | 1157 | .21 | .30 | | | E |
| KHAR | 15 | 1157E | 1206D | | N11 | W48 | .740 | 13280 | 11.9 | 9D | -F | | V | 1158 | | | 1.20 | | D |
| GRP61607 | 15 | 1232 | 1250 | 1239 | N10 | W46 | .716 | 13280 | 12.1 | 18 | --F | | | | .41 | | | | 4 4 4 5 |
| HTPR | 15 | 1231 | 1255 | 1236 | N09 | W47 | .728 | 13280 | 12.0 | 24 | -N | | C | 1236 | .31 | .40 | | | E |
| HUAN | 15 | 1231 | 1240D | | N11 | W46 | .716 | 13280 | 12.1 | 9D | -F | 1 | P | 1236 | .35 | .52 | | | E |
| RAMY | 15 | 1233 | 1247 | 1238U | N08 | W46 | .716 | 13280 | 12.1 | 14 | -F | 3 | C | | .46 | | | | DE |
| TEHR | 15 | 1242E | 1249 | 1242U | N10 | W44 | .691 | 13280 | 12.2 | 7D | -N | 4 | V | | .50 | | | | F |
| 6 STATIONS REPORTING GROUP 61608. 0 STATIONS OBSERVING AND NOT REPORTING. | | | | | | | | | | | | | | | | | | | |
| GRP61608 | 15 | 1324 | 1427 | 1330 | N08 | W47 | .728 | 13280 | 12.0 | 63 | 1B | | | | 3.28 | | | | 6 6 6 6 |
| BOUL | 15 | 1323 | 1425 | 1328 | N07 | W47 | .728 | 13280 | 12.0 | 62 | 1N | | C | 1328 | 2.36 | 3.47 | | | |
| HTPR | 15 | 1323 | 1415 | 1325 | N09 | W47 | .728 | 13280 | 12.0 | 52 | 1B | | C | 1325 | 1.34 | 2.30 | | | V |
| RAMY | 15 | 1324 | 1418 | 1336 | N06 | W48 | .740 | 13280 | 12.0 | 54 | 1B | 4 | C | | 4.18 | | | | DE F |
| TEHR | 15 | 1325E | 1329D | 1326U | N06 | W43 | .679 | 13280 | 12.3 | 4D | 1B | 1 | V | | 4.13 | | | | U |
| HUAN | 15 | 1325 | 1429 | 1327 | N10 | W47 | .728 | 13280 | 12.0 | 64 | 1B | 2 | P | 1327 | 3.00 | 4.62 | | | |
| HTPR | 15 | 1326 | 1430 | 1333 | N03 | W48 | .742 | 13280 | 12.0 | 64 | -N | | C | 1333 | .93 | 1.60 | | | |
| MCMA | 15 | 1330E | 1450D | 1335 | N10 | W48 | .739 | 13280 | 12.0 | 80D | 2B | | C | 1335 | 4.64 | 7.00 | | | FH |
| 608 HTPR | 15 | 1326 | 1420 | 1326 | N14 | W50 | .764 | 13280 | 11.8 | 54 | *-N | | C | 1326 | .62 | .90 | | | 7 |
| GRP61611 | 15 | 1850 | 1917 | 1857 | N09 | W49 | .751 | 13280 | 12.1 | 27 | --F | | | | .79 | | | | 5 5 5 5 |
| BOUL | 15 | 1845U | 1906D | 1856U | N10 | W48 | .739 | 13280 | 12.2 | 21D | -F | | C | 1856 | .43 | .64 | | | |
| MCMA | 15 | 1850 | 1924D | 1900 | N10 | W51 | .773 | 13280 | 12.0 | 34D | -N | | C | 1900 | 1.13 | 1.70 | | | E |
| RAMY | 15 | 1851 | 1916 | 1856 | N06 | W51 | .774 | 13280 | 12.0 | 25 | -F | 4 | C | | .56 | | | | F |
| HUAN | 15 | 1851 | 1915 | 1853U | N10 | W48 | .739 | 13280 | 12.2 | 24 | -F | 1 | C | 1853 | .40 | .62 | | | E |
| PALE | 15 | 1851 | 1914 | 1858 | N10 | W49 | .751 | 13280 | 12.1 | 23 | 1N | 3 | C | | 1.44 | | | | F |
| GRP61612 | 15 | 1923 | 1945 | 1930 | N06 | W79 | .980 | 13279 | 9.9 | 22 | --F | | | | .38 | | | | 2 2 2 4 |
| RAMY | 15 | 1922 | 1950 | 1932U | N04 | W77 | .973 | 13279 | 10.0 | 28 | -F | 4 | C | | .31 | | | | |
| PALE | 15 | 1923 | 1940 | 1928 | N07 | W80 | .983 | 13279 | 9.8 | 17 | -N | 2 | C | | .45 | | | | |
| GRP61613 | 15 | 1939 | 1958 | 1950 | N09 | W56 | .825 | 13280 | 11.6 | 19 | -F | | | | 1.72 | | | | 2 2 2 4 |
| PALE | 15 | 1853E | 1958D | 1958D | N10 | W49 | .751 | 13280 | 12.1 | 65D | 1N | 3 | V | | 1.44 | | | | F |
| RAMY | 15 | 1938 | 1958 | 1946 | N08 | W58 | .844 | 13280 | 11.9 | 20 | -F | 4 | C | | .65 | | | | F |
| PALE | 15 | 1940 | 2013 | 1954U | N11 | W59 | .853 | 13280 | 11.4 | 33 | 1N | 2 | C | | 1.35 | | | | DE |
| GRP61614 | 15 | 2012 | 2051 | 2018 | N09 | W52 | .784 | 13280 | 11.9 | 39 | -N | | | | .59 | | | | 5 4 4 5 |
| RAMY | 15 | 2011 | 2035D | 2016 | N07 | W51 | .773 | 13280 | 12.0 | 24D | -N | 4 | C | | .74 | | | | DE F |
| PALE | 15 | 2013 | 2051D | 2015U | N11 | W51 | .773 | 13280 | 12.0 | 38D | -B | 2 | C | | .72 | | | | F |
| HUAN | 15 | 2013 | 2015D | | N09 | W53 | .794 | 13280 | 11.9 | 2D | -F | 1 | P | 2015 | .35 | .59 | | | |
| BOUL | 15 | 2020E | 2042D | 2022U | N10 | W51 | .773 | 13280 | 12.0 | 22D | -N | | C | 2022 | .54 | .85 | | | |
| MCMA | 15 | 2034E | 2050D | | N10 | W51 | .773 | 13280 | 12.0 | 16D | -F | | P | 2034 | .31 | .50 | | | D |
| | 15 | 2113 | 2209 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 615 VORO | 15 | 2324 | 2335 | 2326 | N09 | W67 | .917 | 13280 | 10.9 | 11 | -B | | C | 2326 | .81 | 1.90 | | 76 | EJ 2 |
| GRP61616 | 16 | 0003 | 0019 | 0005 | N10 | W53 | .795 | 13280 | 12.0 | 16 | -B | | | | .73 | | | | 2 2 2 2 |
| VORO | 16 | 0003 | 0019 | 0006 | N08 | W53 | .795 | 13280 | 12.0 | 16 | -B | | C | 0005 | .90 | 1.40 | | 101 | EJ |
| PALE | 16 | 0003E | 0004D | 0004U | N11 | W52 | .784 | 13280 | 12.1 | 1D | -N | 1 | C | | .55 | | | | |
| GRP61617 | 16 | 0031 | 0045 | 0034 | N11 | W59 | .853 | 13280 | 11.6 | 14 | -B | | | | .75 | | | | 3 3 3 3 |
| PALE | 16 | 0028 | 0036D | 0034 | N12 | W59 | .853 | 13280 | 11.6 | 8D | -B | 2 | C | | .62 | | | | DE |
| MITK | 16 | 0032 | 0043 | 0035 | N12 | W60 | .862 | 13280 | 11.5 | 11 | -N | | C | 0035 | .83 | 1.60 | | | EH |
| VORO | 16 | 0032 | 0046 | 0033 | N09 | W57 | .835 | 13280 | 11.7 | 14 | -B | | C | 0033 | .81 | 1.40 | | 125 | EJ |
| GRP61620 | 16 | 0138 | 0203 | 0142 | N08 | W58 | .844 | 13280 | 11.7 | 25 | -B | | | | .99 | | | | 2 1 1 5 |
| VORO | 16 | 0138 | 0203 | 0142 | N08 | W58 | .844 | 13280 | 11.7 | 25 | -B | | C | 0142 | .99 | 1.80 | | 84 | EJ |
| PALE | 16 | 0201E | 0210D | 0205 | N08 | W57 | .835 | 13280 | 11.8 | 9D | -F | 1 | C | | .36 | | | | F |
| GRP61624 | 16 | 0729 | 0741 | 0733 | N10 | W72 | .947 | 13280 | 10.9 | 12 | -B | | | | .69 | | | | 3 3 3 6 |
| TEHR | 16 | 0728 | 0741 | 0731 | N12 | W72 | .947 | 13280 | 10.9 | 13 | -B | 4 | C | | .64 | | | | DE U |
| ABST | 16 | 0729 | 0742 | 0732 | N10 | W72 | .947 | 13280 | 10.9 | 13 | 1N | | C | 0732 | 1.14 | | | 76 | FJ |
| CATA | 16 | 0730 | 0740 | 0735 | N09 | W72 | .948 | 13280 | 10.9 | 10 | -B | 3 | | 0735 | .28 | | 2.45 | | |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURA-TION | IM-POR-TANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| 6 STATIONS REPORTING GROUP 61626. 0 STATIONS OBSERVING AND NOT REPORTING. | | | | | | | | | | | | | | | | | | | |
| GRP61626 | 16 | 0835 | 1004 | 0907 | N11 | W58 | .844 | 13280 | 12.0 | 89 | 1N | | | | 3.00 | | | | 5 5 5 5 |
| HTPR | 16 | 0822 | 0830 | | N08 | W60 | .862 | 13280 | 11.8 | 8 | -F | | C | 0822 | .10 | .20 | | | D |
| ABST | 16 | 0830E | 0907D | 0907 | N15 | W56 | .826 | 13280 | 12.2 | 37D | 1N | | P | 0907 | 2.62 | 5.00 | | 76 | FJK |
| ARCE | 16 | 0835E | 0927D | | N09 | W60 | .862 | 13280 | 11.9 | 52D | 2B | | C | 0909 | 5.76 | 11.50 | | | K |
| HTPR | 16 | 0835 | 0847 | 0840 | N10 | W57 | .834 | 13280 | 12.1 | 12 | -F | | C | 0840 | .21 | .40 | | | D |
| HTPR | 16 | 0837 | 1015 | 0907 | N13 | W63 | .886 | 13280 | 11.6 | 98 | -F | | C | 0907 | .52 | 1.00 | | | |
| HTPR | 16 | 0837 | 1015 | 0857 | N14 | W58 | .844 | 13280 | 12.0 | 98 | -F | | C | 0857 | .62 | 1.00 | | | |
| TEHR | 16 | 0839 | 1003 | 0904U | N13 | W58 | .844 | 13280 | 12.0 | 84 | 1N | 4 | C | | 2.89 | | | | U F |
| HTPR | 16 | 0848 | 1015 | 0856 | N11 | W55 | .815 | 13280 | 12.2 | 87 | -F | | C | 0856 | .21 | .40 | | | U |
| CATA | 16 | 0855 | 0955 | 0910 | N11 | W60 | .862 | 13280 | 11.9 | 60 | 2B | 3 | | 0910 | 3.09 | 6.28 | 2.24 | | |
| 61626 | 16 | 0912 | 0949 | 0923 | N12 | W62 | .878 | 13280 | 11.7 | 37 | *-F | | | | 1.16 | | | | 3 3 3 5 |
| HTPR | 16 | 0906 | 0955 | 0919 | N07 | W62 | .879 | 13280 | 11.7 | 49 | -F | | C | 0919 | .21 | .40 | | | |
| ARCE | 16 | 0917 | 0927 | 0924 | N17 | W65 | .902 | 13280 | 11.5 | 10 | -F | | C | 0924 | .57 | 1.30 | | | |
| MONT | 16 | 0927E | 1005 | 0927 | N13 | W59 | .853 | 13280 | 12.0 | 38D | 1N | | C | 0927 | 2.70 | | | | BF |
| 8 STATIONS REPORTING GROUP 61627. 0 STATIONS OBSERVING AND NOT REPORTING. | | | | | | | | | | | | | | | | | | | |
| GRP61627 | 16 | 1258 | 1411 | 1313 | N11 | W61 | .870 | 13280 | 12.0 | 73 | 1B | | | | 1.78 | | | | 8 8 8 8 |
| ATHN | 16 | 1256E | 1329D | 1307 | N10 | W63 | .887 | 13280 | 11.8 | 33D | 1B | 2 | C | | 2.64 | | | | U F |
| HTPR | 16 | 1258 | 1320 | 1302 | N10 | W60 | .862 | 13280 | 12.0 | 22 | -B | | C | 1302 | .41 | .80 | | | E |
| HUAN | 16 | 1259 | 1418 | 1304 | N09 | W63 | .887 | 13280 | 11.8 | 79 | 1N | 1 | P | 1304 | 1.40 | 2.93 | | | E |
| MCMA | 16 | 1302E | 1445D | | N10 | W63 | .887 | 13280 | 11.8 | 103D | 2B | | C | 1304 | 3.61 | 7.50 | | | FL |
| TEHR | 16 | 1302E | 1309D | 1303 | N10 | W61 | .870 | 13280 | 12.0 | 7D | 1B | 2 | C | | 1.46 | | | | U F |
| HTPR | 16 | 1302 | 1305 | 1303 | N14 | W60 | .862 | 13280 | 12.0 | 3 | -F | | C | 1303 | .21 | .40 | | | |
| HTPR | 16 | 1302 | 1325 | 1308 | N05 | W62 | .880 | 13280 | 11.9 | 23 | -F | | C | 1308 | .10 | .20 | | | |
| MONT | 16 | 1305E | 1422D | 1305 | N11 | W60 | .862 | 13280 | 12.0 | 77D | -N | | C | 1305 | 2.20 | | | | B |
| HTPR | 16 | 1306 | 1320 | 1308 | N14 | W60 | .862 | 13280 | 12.0 | 14 | -F | | C | 1308 | .31 | .60 | | | |
| BOUL | 16 | 1320E | 1400 | 1324 | N11 | W56 | .825 | 13280 | 12.4 | 40D | 1N | | C | 1324 | 1.71 | 3.03 | | | |
| CATA | 16 | 1340E | 1400 | 1345 | N14 | W62 | .879 | 13280 | 11.9 | 20D | -N | 3 | | 1345 | .84 | 1.82 | 1.78 | | |
| ATHN | 16 | 1410E | 1415D | 1411U | N13 | W65 | .902 | 13280 | 11.7 | 5D | -N | 2 | C | | .66 | | | | F |
| 627 HTPR | 16 | 1301 | 1310 | 1304 | N14 | W67 | .916 | 13280 | 11.5 | 9 | *-N | | C | 1304 | .21 | .40 | | | 7 |
| GRP61629 | 16 | 1642 | 1657 | 1646 | N08 | W57 | .835 | 13280 | 12.4 | 15 | --F | | | | .21 | | | | 2 1 1 5 |
| BOUL | 16 | 1642 | 1657 | 1646 | N08 | W57 | .835 | 13280 | 12.4 | 15 | -F | | C | 1646 | .21 | .39 | | | |
| PALE | 16 | 1657 | 1709 | 1658 | N11 | W68 | .923 | 13280 | 11.6 | 12 | -F | 2 | W | | .31 | | | | DE |
| GRP61630 | 16 | 1803 | 1818 | 1807 | N09 | W60 | .862 | 13280 | 12.3 | 15 | --F | | | | .23 | | | | 3 3 3 5 |
| PALE | 16 | 1753E | 1808 | 1754J | N06 | W66 | .911 | 13280 | 11.8 | 15D | -N | 2 | C | | .36 | | | | |
| BOUL | 16 | 1802 | 1823D | 1808 | N09 | W57 | .835 | 13280 | 12.5 | 21D | -F | | C | 1808 | .21 | .39 | | | |
| RAMY | 16 | 1804 | 1815 | 1806 | N10 | W60 | .862 | 13280 | 12.3 | 11 | -F | 3 | W | | .21 | | | | DE |
| PALE | 16 | 1804E | 1815 | 1807 | N10 | W59 | .853 | 13280 | 12.3 | 11D | -N | 2 | C | | .27 | | | | F H |
| GRP61631 | 16 | 1844 | 1851 | 1845 | N12 | W70 | .935 | 13280 | 11.5 | 7 | -N | | | | .39 | | | | 3 3 3 3 |
| PALE | 16 | 1843 | 1854 | 1845U | N13 | W70 | .935 | 13280 | 11.5 | 11 | -F | 3 | C | | .55 | | | | DE |
| MCMA | 16 | 1844 | 1849 | 1846 | N10 | W66 | .909 | 13280 | 11.8 | 5 | -N | | C | 1846 | .41 | 1.00 | | | D |
| HUAN | 16 | 1844 | 1849 | 1845 | N12 | W75 | .962 | 13280 | 11.2 | 5 | -N | 1 | C | 1845 | .20 | .46 | | | D |
| GRP61632 | 16 | 1954 | 2016 | 2003 | N08 | W77 | .972 | 13280 | 11.1 | 22 | --F | | | | .33 | | | | 4 4 4 4 |
| PALE | 16 | 1937E | 1959 | 1940U | N10 | W72 | .947 | 13280 | 11.4 | 22D | -F | 2 | W | | .26 | | | | DE |
| RAMY | 16 | 1951 | 1957D | 1956 | N07 | W70 | .937 | 13280 | 11.6 | 6D | -F | 3 | C | | .37 | | | | DE |
| BOUL | 16 | 1955 | 2018 | 2002 | N09 | W77 | .972 | 13280 | 11.1 | 23 | -F | | C | 2002 | .32 | 1.00 | | | |
| HUAN | 16 | 1955 | 2015 | 2005 | N07 | W85 | .995 | 13280 | 10.5 | 20 | -F | 1 | C | 2005 | .35 | | | | |
| PALE | 16 | 2003 | 2015 | 2009U | N11 | W78 | .975 | 13280 | 11.0 | 12 | -F | 2 | C | | .27 | | | | DE |
| 633 PALE | 16 | 2026 | 2031D | 2027 | N09 | W75 | .963 | 13280 | 11.2 | 5D | --N | 1 | C | | .27 | | | | F 3 |
| | 16 | 2205 | 2213 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 16 | 2305 | 0016 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 17 | 0022 | 0031 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 17 | 0116 | 0150 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 17 | 0202 | 0217 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 17 | 0227 | 0230 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 17 | 0232 | 0245 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 17 | 0246 | 0254 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 634 TEHR | 17 | 0317 | 0338 | 0323 | N09 | W67 | .914 | 13280 | 12.1 | 21 | --N | 3 | C | | .36 | | | | DE 2 |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME — UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| GRP61635 | 17 | 0412 | 0502 | 0418 | N10 | W71 | .939 | 13280 | 11.9 | 50 | -B | | | | 2.64 | | | | 3 2 1 3 |
| TEHR | 17 | 0412 | 0502 | 0418 | N10 | W71 | .939 | 13280 | 11.8 | 50 | 1B | 4 | C | | 2.64 | | | | F |
| KODA | 17 | 0416E | 04190 | 0417 | N10 | W70 | .933 | 13280 | 11.9 | 3D | -N | | V | 0416 | | | 2.20 | | D |
| MITK | 17 | 0436E | 04530 | | N13 | W75 | .959 | 13280 | 11.6 | 17D | -N | | C | 0436 | .52 | | | | D |
| GRP61638 | 17 | 0829 | 0837 | 0833 | N13 | W80 | .980 | 13280 | 11.4 | 8 | --F | | | | .45 | | | | 2 2 2 4 |
| ABST | 17 | 0824 | 08360 | 0832 | N13 | W80 | .980 | 13280 | 11.4 | 12D | -F | | P | 0832 | .70 | | | | DJK |
| MONT | 17 | 0833 | 0837 | 0834 | N13 | W79 | .976 | 13280 | 11.4 | 4 | -F | | C | 0834 | .20 | | | | |
| 639 TEHR | 17 | 1108 | 1117 | 1111 | N07 | W83 | .990 | 13280 | 11.2 | 9 | --N | 4 | C | | .25 | | | | DE 3 |
| GRP61644 | 17 | 1750 | 1802 | 1752 | N10 | W84 | .992 | 13280 | 11.4 | 12 | -N | | | | .31 | | | | 3 3 3 5 |
| BOUL | 17 | 1748 | 1807 | 1751 | N10 | W83 | .989 | 13280 | 11.5 | 19 | -F | | C | 1751 | .21 | .75 | | | |
| HUAN | 17 | 1751 | 1758 | 1752 | N10 | W86 | .998 | 13280 | 11.1 | 7 | -N | 1 | C | 1752 | .35 | | | | |
| PALE | 17 | 1752E | 18020 | 1752U | N11 | W81 | .984 | 13280 | 11.7 | 10D | -N | 2 | C | | .36 | | | | |
| 646 PALE | 17 | 1839E | 1841 | 1839U | N11 | W81 | .984 | 13280 | 11.7 | 2D | --F | 3 | C | | .27 | | | | DE 3 |
| GRP61647 | 17 | 1949 | 2003 | 1953 | N11 | W78 | .973 | 13280 | 12.0 | 14 | --F | | | | .44 | | | | 2 2 2 2 |
| BOUL | 17 | 1948 | 2010 | 1953 | N11 | W77 | .969 | 13280 | 12.0 | 22 | -F | | C | 1953 | .43 | 1.34 | | | |
| PALE | 17 | 1949 | 1956 | 1953 | N11 | W78 | .973 | 13280 | 12.0 | 7 | -F | 3 | C | | .45 | | | | DE |
| | 17 | 2135 | 2145 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 17 | 2305 | 0115 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 18 | 0201 | 0213 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 648 TEHR | 18 | 0359 | 0428 | 0405 | N14 | W86 | .996 | 13280 | 11.7 | 29 | --F | 3 | C | | .46 | | | | 3 |
| 649 TEHR | 18 | 0646E | 0655 | 0650 | N15 | W86 | .996 | 13280 | 11.8 | 9D | -N | 4 | C | | .55 | | | | 5 |
| GRP61650 | 18 | 0715 | 0728 | 0717 | N05 | W86 | .997 | 13280 | 11.9 | 13 | -N | | | | .65 | | | | 2 2 2 5 |
| ABST | 18 | 0714 | 0725 | 0716 | N05 | W86 | .997 | 13280 | 11.9 | 12 | 1N | | C | 0716 | .96 | | | 55 | ADJK |
| ATHN | 18 | 0716 | 0730 | 0718 | N04 | W85 | .996 | 13280 | 11.9 | 14 | -N | 3 | C | | .33 | | | | DE |
| ATHN | 18 | 0725 | 0732 | 0727 | N05 | W85 | .995 | 13280 | 11.9 | 7 | -F | 3 | C | | .17 | | | | DE |
| GRP61651 | 18 | 0751 | 0817 | 0758 | N12 | W88 | .999 | 13280 | 11.7 | 26 | --F | | | | .52 | | | | 3 3 2 6 |
| ATHN | 18 | 0747E | 0824 | 0759 | N10 | W90 | 1.000 | 13280 | 11.6 | 37D | -N | 3 | V | | | | | | DE |
| TEHR | 18 | 0754 | 0810 | 0759 | N15 | W84 | .992 | 13280 | 12.0 | 16 | -F | 4 | C | | .47 | | | | |
| CATA | 18 | 0755E | 08000 | 0755 | N10 | W90 | 1.000 | 13280 | 11.6 | 5D | 1F | 3 | | 0755 | .56 | | 1.32 | | |
| GRP61654 | 18 | 1330 | 1340 | 1333 | N06 | W87 | .998 | 13280 | 12.0 | 10 | --F | | | | .25 | | | | 4 4 4 7 |
| HTPR | 18 | 1323 | 1345 | 1330 | N08 | W90 | 1.000 | 13280 | 11.8 | 22 | -F | | C | 1330 | .21 | | | | A |
| ATHN | 18 | 1329 | 1338 | 1332 | N06 | W89 | 1.000 | 13280 | 11.9 | 9 | -N | 2 | C | | .17 | | | | DE |
| HTPR | 18 | 1329 | 1400 | 1335U | N05 | W90 | 1.000 | 13280 | 11.8 | 31 | -F | | C | 1335 | .31 | | | | 2 0 |
| BOUL | 18 | 1330 | 1338 | 1332 | N05 | W82 | .989 | 13280 | 12.4 | 8 | -N | | C | 1332 | .32 | 1.12 | | | |
| MONT | 18 | 1331 | 1339 | 1333 | N08 | W86 | .999 | 13280 | 12.0 | 8 | -F | | C | 1333 | .20 | | | | D |
| GRP61656 | 18 | 1416 | 1427 | 1418 | N05 | W88 | .999 | 13280 | 12.0 | 11 | -N | | | | .55 | | | | 7 7 3 10 |
| HTPR | 18 | 1415 | 1430 | 1417 | N04 | W90 | 1.000 | 13280 | 11.8 | 15 | -N | | C | 1417 | .31 | | | | A |
| BOUL | 18 | 1415 | 1429 | 1419 | N04 | W82 | .989 | 13280 | 12.4 | 14 | 1N | | C | 1419 | .64 | 2.24 | | | |
| ATHN | 18 | 1416E | 14200 | 1417U | N04 | W90 | 1.000 | 13280 | 11.8 | 4D | -F | 1 | C | | | | | | DE |
| RAMY | 18 | 1416 | 1424 | 1418 | N02 | W88 | .999 | 13280 | 12.0 | 8 | -N | 3 | C | | | | | | |
| MONT | 18 | 1416 | 1425 | 1418 | N08 | W88 | .999 | 13280 | 12.0 | 9 | -N | | C | 1418 | .70 | | | | |
| HUAN | 18 | 1416 | 14210 | 1418 | N03 | W90 | 1.000 | 13280 | 11.8 | 5D | -F | 1 | P | | | | | | |
| MCNA | 18 | 1417 | 1426 | 1418 | N11 | W90 | 1.000 | 13280 | 11.8 | 9 | -F | | C | 1418 | | | | | |
| | 18 | 1602 | 1615 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 657 BOUL | 18 | 1708 | 1725 | 1715 | N09 | W83 | .991 | 13280 | 12.5 | 17 | --F | | C | 1715 | .11 | .38 | | | 3 |
| | 19 | 2045 | 2054 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 20 | 0010 | 0020 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 660 RAMY | 20 | 1945E | 1950 | 1947U | N05 | W61 | .872 | 13292 | 16.2 | 5D | --F | 3 | C | | .31 | | | | 3 |
| | 20 | 2005 | 2014 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 20 | 2023 | 2028 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 22 | 0116 | 0124 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 22 | 0150 | 0151 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 22 | 0245 | 0248 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 663 PALE | 22 | 2043 | 2113 | 2055 | S09 | W64 | .909 | 13302 | 18.1 | 30 | --F | 3 | C | | .40 | | | | DE Z 3 |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURA-TION | IM-POR-TANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | NOAA PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hg | MAX. INT. % | |
| | 22 | 2328 | 2335 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| GRP61664 | 23 | 0656 | 0705 | 0658 | S10 | W72 | .958 | 13302 | 17.9 | 9 | -F | | | | .56 | | | | 2 2 2 3 |
| ABST | 23 | 0655 | 0704 | 0657 | S11 | W72 | .959 | 13302 | 17.9 | 9 | 1F | | C | 0657 | .79 | | | 52 | DJK |
| ATHN | 23 | 0656 | 0706 | 0659 | S09 | W72 | .957 | 13302 | 17.9 | 10 | -N | 2 | C | | .33 | | | | DE |
| GRP61665 | 23 | 0759 | 0811 | 0804 | S10 | W71 | .953 | 13302 | 18.0 | 12 | --F | | | | .43 | | | | 3 3 3 6 |
| HTPR | 23 | 0758 | 0805 | 0802 | S09 | W70 | .947 | 13302 | 18.1 | 7 | -F | | C | 0802 | .10 | | | | D |
| ABST | 23 | 0759 | 0816 | 0807 | S11 | W72 | .959 | 13302 | 17.9 | 17 | 1N | | C | 0807 | .67 | | | 60 | DJK |
| ATHN | 23 | 0801 | 0812 | 0804 | S09 | W72 | .957 | 13302 | 17.9 | 11 | -F | 2 | C | | .33 | | | | DE |
| 666 HTPR | 23 | 0921 | 0924 | 0922 | S09 | W71 | .952 | 13302 | 18.1 | 3 | --F | | C | 0922 | .10 | | | | D 3 |
| GRP61667 | 23 | 1015 | 1029 | 1018 | S09 | W73 | .962 | 13302 | 18.0 | 14 | --F | | | | .22 | | | | 2 2 2 2 |
| HTPR | 23 | 1015 | 1020 | 1018 | S09 | W72 | .957 | 13302 | 18.0 | 5 | -F | | C | 1018 | .10 | | | | D |
| TEHR | 23 | 1015 | 1037 | 1018 | S09 | W73 | .962 | 13302 | 18.0 | 22 | -N | 4 | C | | .34 | | | | DE |
| | 23 | 1520 | 1717 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 23 | 1757 | 1820 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 23 | 1830 | 1902 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 23 | 2110 | 2128 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 23 | 2130 | 2148 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 24 | 1952 | 1959 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 24 | 2014 | 2029 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 24 | 2135 | 2142 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 25 | 1502 | 1512 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 25 | 1646 | 1647 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 26 | 2141 | 2148 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| GRP61670 | 26 | 2147 | 2212 | 2151 | N08 | E26 | .438 | 13309 | 28.9 | 25 | --F | | | | .37 | | | | 2 2 2 2 |
| BOUL | 26 | 2147E | 22100 | 2149 | N08 | E25 | .423 | 13309 | 28.8 | 230 | -F | | C | 2149 | .43 | .47 | | | |
| PALE | 26 | 2150E | 2212 | 2153 | N07 | E26 | .437 | 13309 | 28.9 | 220 | -F | 2 | C | | .31 | | | | DE |
| | 27 | 0400 | 0418 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 27 | 0419 | 0426 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 27 | 0432 | 0440 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 27 | 0455 | 0500 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 671 ATHN | 27 | 0545E | 0554 | 0547 | N06 | E69 | .931 | 13315 | 1.4 | 90 | --N | 4 | C | | .33 | | | | DE 3 |
| 672 RAMY | 27 | 1328 | 1338 | 1330 | N07 | E70 | .937 | 13315 | 1.8 | 10 | --F | 2 | C | | .37 | | | | DE 3 |
| | 27 | 2002 | 2019 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 27 | 2039 | 2104 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 27 | 2106 | 2112 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 27 | 2255 | 2300 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 28 | 2019 | 2048 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 28 | 2109 | 2222 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 673 HTPR | 29 | 0822 | 0830 | 0824 | N05 | E47 | .729 | 13315 | 1.9 | 8 | --F | | C | 0824 | .21 | .30 | | | D 3 |
| GRP61675 | 29 | 1017 | 1027 | 1020 | N04 | E46 | .718 | 13315 | 1.9 | 10 | --F | | | | .19 | | | | 2 2 2 3 |
| HTPR | 29 | 1017 | 1026 | 1020 | N05 | E45 | .705 | 13315 | 1.8 | 9 | -F | | C | 1020 | .21 | .30 | | | E |
| ATHN | 29 | 1018E | 1027 | 1019U | N03 | E47 | .730 | 13315 | 2.0 | 90 | -F | 3 | V | | .17 | | | | DE |
| | 29 | 1627 | 1630 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 677 HUAN | 30 | 1841 | 18450 | | S15 | W09 | .367 | 13314 | 30.1 | 40 | --F | 1 | P | 1843 | .40 | .44 | | | E 2 |
| | 30 | 2151 | 2202 | NO FLARE PATROL | | | | | | | | | | | | | | | |

# Hα SOLAR FLARES
## Confirmed
### OCTOBER 1974

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | NOAA PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| | 30 | 2250 | 2255 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 31 | 0257 | 0300 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 31 | 1258 | 1315 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 31 | 1319 | 1408 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 31 | 1508 | 1513 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 31 | 1518 | 1522 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 678 HUAN | 31 | 1539 | 1553 | 1551U | N16 | E90 | 1.000 | 13324 | 7.4 | 14 | -N | 1 | C | 1551 | .68 | | | | 3 |
| | 31 | 1626 | 1630 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 31 | 2048 | 2050 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 31 | 2054 | 2057 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 31 | 2112 | 2113 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 31 | 2121 | 2204 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 31 | 2227 | 2247 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 31 | 2318 | 2318 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 31 | 2322 | 2327 | NO FLARE PATROL | | | | | | | | | | | | | | | |

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by a high speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the calcium II lines H and K.
P = Flare shows helium $D_3$ in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked asymmetry in Hα line suggests ejection of high velocity material.
S = Brightness follows disappearance of filament (same position).
T = Region active all day.
U = Two bright branches, parallel (||) or converging (Y).
V = Occurrence of an explosive phase: important and abrupt expansion in about a minute with or without important intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide Hα line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

In the importance column "--" signifies the subflare has been confirmed by the NOAA grouping program but is not included in the I.A.U. Quarterly Bulletin on Solar Activity. These subflares are also not included in the Flare Index below.

### DAILY FLARE INDICES

| Date | Flare Index | HR OBS | Date | Flare Index | HR OBS | Date | Flare Index | HR OBS |
|---|---|---|---|---|---|---|---|---|
| 741001 | 3.13 | 23.6 | ~~741011~~ | ~~176.37~~ | ~~23.5~~ | 741022 | 0.00 | 23.7 |
| ~~741002~~ | ~~0.00~~ | ~~22.4~~ | 741012 | 117.25 | 24.0 | 741023 | 1.87 | 20.5 |
| 741003 | 40.83 | 20.9 | 741013 | 320.37 | 23.7 | ~~741024~~ | ~~0.00~~ | ~~23.5~~ |
| 741004 | 0.00 | 20.9 | ~~741014~~ | ~~2.66~~ | ~~23.7~~ | 741025 | 0.00 | 23.8 |
| ~~741005~~ | ~~15.29~~ | ~~23.4~~ | 741015 | 226.17 | 23.1 | ~~741026~~ | ~~0.00~~ | ~~23.9~~ |
| 741006 | 34.08 | 23.5 | 741016 | 78.49 | 22.7 | 741027 | 0.00 | 22.5 |
| 741007 | 4.70 | 23.8 | ~~741017~~ | ~~39.51~~ | ~~20.3~~ | 741028 | 0.00 | 22.3 |
| ~~741008~~ | ~~9.81~~ | ~~23.2~~ | 741018 | 5.42 | 23.6 | ~~741029~~ | ~~0.00~~ | ~~24.0~~ |
| 741009 | 14.35 | 23.7 | 741019 | 0.00 | 23.9 | 741030 | 0.00 | 23.7 |
| 741010 | 45.16 | 23.2 | ~~741020~~ | ~~0.00~~ | ~~23.5~~ | 741031 | 2.01 | 21.0 |

When no Flare Index is given, it is 0 for that day.

# Hα SOLAR FLARES
## Unconfirmed
### OCTOBER 1974

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURA-TION | IM-POR-TANCE | OBS. | | MEASUREMENTS | | | | | REMARKS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | | |
| 327 ATHN | 02 | 0626 | 0643 | 0630 | S09 | E29 | .543 | 13263 | 4.4 | 17 | -F | 2 | C | | .17 | | | | DE | 4 |
| 328 ATHN | 02 | 0755 | 0815 | 0802 | S08 | E28 | .523 | 13263 | 4.4 | 20 | -F | 4 | C | | .33 | | | | DE | 7 |
| 329 ATHN | 02 | 1023 | 1029 | 1024 | S06 | E24 | .456 | 13263 | 4.2 | 6 | -F | 1 | | 1024 | .68 | .68 | | | | 3 |
| 331 HUAN | 02 | 1837E | 1853 | | N05 | E90 | 1.000 | 13279 | 9.5 | 160 | -F | 1 | P | 1838 | .30 | | | | | 3 |
| 339 TEHR | 03 | 0805 | 0818 | 0806 | S05 | E10 | .264 | 13263 | 4.1 | 13 | -F | 3 | C | | .36 | | | | DE | 4 |
| 341 MCMA | 03 | 1228 | 1235 | | S22 | E75 | .981 | 13278 | 9.1 | 7 | -N | | C | 1230 | .31 | | | | D | 4 |
| 342 HUAN | 03 | 1516 | 1530 | 1525 | N13 | E90 | 1.000 | 13279 | 10.4 | 14 | -F | 1 | C | 1525 | .20 | | | | D | 4 |
| 343 CATA | 03 | 1545 | 1555 | 1550 | N13 | E90 | 1.000 | 13279 | 10.4 | 10 | -F | 3 | | 1550 | .28 | | 1.23 | | | 5 |
| 344 HUAN | 03 | 1551 | 1600 | 1555 | N09 | E90 | 1.000 | 13280 | 10.4 | 9 | -F | 1 | C | | | | | | | 5 |
| 348 MITK | 04 | 0420E | 04400 | | S12 | E90 | 1.000 | 13281 | 10.9 | 200 | 1N | | P | 0420 | .93 | | | | | 3 |
| 353 HUAN | 04 | 1244 | 1311 | 1303U | S17 | E58 | .883 | 13278 | 8.9 | 27 | -F | 1 | C | 1303 | .45 | .94 | | | T | 4 |
| 356 CATA | 04 | 1420 | 1445 | 1430 | N10 | E90 | 1.000 | 13280 | 11.3 | 25 | 1N | 3 | | 1430 | .56 | | 1.51 | | | 4 |
| 357 HUAN | 04 | 1455 | 1502 | 1456 | N08 | W11 | .191 | 13262 | 3.8 | 7 | -F | 1 | C | | | | | | | 4 |
| 363 TEHR | 05 | 0735 | 0747 | 0739 | S08 | W21 | .430 | 13263 | 3.7 | 12 | -F | 4 | C | | .19 | | | | H | 5 |
| 364 CATA | 05 | 0745E | 07500 | 0745 | N08 | E90 | 1.000 | 13280 | 12.1 | 50 | -F | 3 | | 0745 | .28 | | 1.45 | | | 6 |
| 365 ABST | 05 | 0754E | 08030 | 0756 | N13 | E89 | .999 | 13280 | 12.3 | 90 | 1F | | P | 0756 | .87 | | | | ADJK | 5 |
| 368 HTPR | 05 | 0824 | 0848 | 0826 | S20 | E48 | .810 | 13278 | 9.0 | 24 | -N | | C | 0826 | .31 | .50 | | | EK | 6 |
| 369 HTPR | 05 | 0824 | 0848 | 0833 | S20 | E48 | .810 | 13278 | 9.0 | 24 | -N | | C | 0833 | .41 | .70 | | | EK | 6 |
| 372 HTPR | 05 | 0918 | 0935 | 0925 | S20 | E48 | .810 | 13278 | 9.0 | 17 | -N | | C | 0925 | .21 | .30 | | | DK | 5 |
| 376 HTPR | 05 | 1510 | 1525 | 1514 | N08 | E90 | 1.000 | 13280 | 12.4 | 15 | -N | | C | 1514 | .10 | | | | ADY | 4 |
| 377 HUAN | 05 | 1633 | 1636 | 1633 | N10 | E88 | .999 | 13280 | 12.3 | 3 | -F | 1 | C | 1633 | .20 | | | | D | 4 |
| 384 ATHN | 06 | 0523E | 05290 | 0526U | N11 | E73 | .952 | 13280 | 11.7 | 60 | -F | 1 | C | | .50 | | | | F | 5 |
| 388 ATHN | 06 | 0749 | 0800 | 0754 | S10 | W35 | .623 | 13263 | 3.7 | 11 | -F | 1 | C | | .33 | | | | F | 4 |
| 391 HTPR | 06 | 0939 | 0943 | 0940 | S13 | E57 | .865 | 13281 | 10.7 | 4 | -F | | C | 0940 | .41 | .80 | | | E | 5 |
| 392 ATHN | 06 | 1023 | 1032 | 1024 | N07 | E78 | .976 | 13280 | 12.3 | 9 | -F | 2 | C | | .50 | | | | F | 5 |
| 395 KHAR | 06 | 1152E | 11580 | | N03 | E75 | .965 | 13280 | 12.1 | 60 | -F | | V | | | | | | D | 4 |
| 402 KODA | 07 | 0216E | 0230 | 0220 | N14 | E65 | .901 | 13280 | 12.0 | 140 | -N | | P | 0216 | 1.52 | 1.53 | 2.24 | | D | 3 |
| 403 MITK | 07 | 0431E | 0434 | | N12 | E66 | .908 | 13280 | 12.1 | 30 | -N | | C | 0431 | .52 | | | | E | 5 |
| 404 MITK | 07 | 0529 | 0539 | 0531 | N05 | E65 | .904 | 13280 | 12.1 | 9 | -F | | C | 0531 | .62 | 1.40 | | | E | 5 |
| 405 ATHN | 07 | 0612 | 0621 | 0613 | N07 | E53 | .795 | 13280 | 11.2 | 9 | -F | 3 | C | | .33 | | | | DE | 6 |
| 407 ATHN | 07 | 0754 | 0804 | 0757 | S20 | E21 | .552 | 13278 | 8.9 | 10 | -F | 3 | C | | .50 | | | | DE | 4 |
| 409 KHAR | 07 | 0930E | 09500 | | S04 | W49 | .766 | 13263 | 3.7 | 230 | -F | | V | 0934 | | | 1.20 | | D | 7 |
| 410 KHAR | 07 | 0932E | 09490 | | N13 | W56 | .824 | 13262 | 3.2 | 160 | -F | | V | 0935 | | | 1.20 | | D | 7 |
| 411 KHAR | 07 | 0945E | 11050 | | N05 | E64 | .896 | 13280 | 12.2 | 800 | 1N | | P | 0950 | 1.40 | 3.20 | 1.50 | | T | 5 |
| 416 HTPR | 08 | 0759 | 0802 | 0800 | N08 | E50 | .762 | 13280 | 12.1 | 3 | -F | | C | 0800 | .21 | .30 | | | D | 4 |
| 417 ABST | 08 | 0816E | 08330 | 0831 | S22 | E08 | .491 | 13278 | 8.9 | 170 | -F | | P | 0831 | .79 | .90 | | | D | 4 |
| 418 ATHN | 08 | 0901 | 0958 | 0903 | N06 | E51 | .774 | 13280 | 12.2 | 57 | -N | 4 | C | | .33 | | | | DE | 4 |
| 421 HUAN | 08 | 1246E | 1251 | | N05 | E15 | .259 | 13279 | 9.7 | 50 | -F | 1 | P | 1247 | .25 | .27 | | | D | 3 |
| 422 ATHN | 08 | 1310 | 1323 | 1313 | N12 | E32 | .531 | 13280 | 10.9 | 13 | -N | 1 | | 1313 | .68 | .70 | | | | 4 |
| 424 ATHN | 08 | 1349 | 1401 | 1355 | N07 | E50 | .762 | 13280 | 12.3 | 12 | -F | 3 | C | | .33 | | | | F | 4 |

# Hα SOLAR FLARES
## Unconfirmed
### OCTOBER 1974

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| 430 HJAN | 08 | 1908 | 1912 | 1909 | N09 | E46 | .715 | 13280 | 12.2 | 4 | -F | 1 | C | 1909 | .30 | .34 | | | 4 |
| 434 VORO | 08 | 2309 | 2319 | | N05 | E09 | .157 | 13279 | 9.6 | 10 | -B | | C | 2310 | .72 | .70 | | 64 | EJ 4 |
| 438 PALE | 09 | 0114 | 0127 | 0118 | N05 | E41 | .654 | 13280 | 12.1 | 13 | -F | 3 | C | | .27 | | | | DE 4 |
| 439 PALE | 09 | 0118 | 0143 | 0121 | S18 | W04 | .416 | 13278 | 8.8 | 25 | -F | 3 | C | | .63 | | | | DE 4 |
| 443 PALE | 09 | 0351E | 04010 | 0352U | S18 | W06 | .423 | 13278 | 8.7 | 100 | -F | 1 | V | | .52 | | | | 3 |
| 446 MANI | 09 | 0426E | 04310 | 0426U | N05 | E38 | .613 | 13280 | 12.0 | 50 | -F | 2 | | 0426 | .41 | .52 | | | F 3 |
| 448 MANI | 09 | 0505 | 05200 | 0508 | S20 | W02 | .444 | 13278 | 9.1 | 150 | -N | 2 | | 0508 | .41 | .46 | | | 4 |
| 449 MANI | 09 | 0510 | 05200 | 0512 | N04 | E04 | .080 | 13279 | 9.5 | 100 | -F | 2 | | 0512 | .31 | .31 | | | 4 |
| 451 ABST | 09 | 0632 | 06420 | 0633 | S20 | W09 | .465 | 13278 | 8.6 | 100 | -F | | P | 0639 | .96 | 1.10 | | | EJ 3 |
| GRP61452 | 09 | 0705 | 0745 | 0727 | N07 | E40 | .639 | 13280 | 12.3 | 40 | -F | | | | .61 | | | | 2 2 2 7 |
| ABST | 09 | 0655E | 0742 | 0731 | N06 | E39 | .626 | 13280 | 12.2 | 470 | -F | | P | 0731 | 1.05 | 1.20 | | | DJK |
| ATHN | 09 | 0714 | 0747 | 0722 | N07 | E40 | .639 | 13280 | 12.3 | 33 | -N | 3 | C | | .17 | | | | F |
| 453 ARCE | 09 | 0807E | 08070 | | S18 | W09 | .436 | 13278 | 8.7 | | -N | | P | 0807 | 1.12 | 1.20 | | | H 7 |
| 456 MCMA | 09 | 1205E | 12120 | | S19 | W11 | .462 | 13278 | 8.7 | 70 | -N | | P | 1209 | .83 | .90 | | | E 5 |
| 457 HJAN | 09 | 1220E | 1231 | | S19 | W11 | .462 | 13278 | 8.7 | 110 | -F | 1 | P | 1221 | .40 | .46 | | | 5 |
| 461 HJAN | 09 | 1505E | 1520 | | S19 | W11 | .462 | 13278 | 8.8 | 150 | -F | 1 | P | 1506 | .30 | .35 | | | 6 |
| 462 HTPR | 09 | 1515 | 1530 | 1516 | N06 | E32 | .527 | 13280 | 12.0 | 15 | -F | | C | 1517 | .10 | .10 | | | 6 |
| 463 MCMA | 09 | 1619E | 16210 | | S19 | W13 | .475 | 13278 | 8.7 | 20 | -N | | P | 1621 | .41 | .50 | | | E 4 |
| 466 BJUL | 09 | 1716 | 1729 | 1717 | N10 | E24 | .407 | 13280 | 11.5 | 13 | -F | | C | 1717 | .21 | .23 | | | 4 |
| 478 HTPR | 10 | 0752 | 0809 | 0754 | N04 | W10 | .177 | 13279 | 9.6 | 17 | -F | | C | 0754 | .21 | .20 | | | E 5 |
| 484 ATHN | 10 | 1100 | 1110 | 1103 | N07 | E25 | .420 | 13280 | 12.3 | 10 | -F | 1 | | 1103 | .17 | .16 | | | 5 |
| 486 ATHN | 10 | 1152 | 1157 | 1153 | N05 | W09 | .157 | 13279 | 9.8 | 5 | -F | 1 | | 1153 | .68 | .83 | | | 4 |
| 488 HJAN | 10 | 1236 | 1301 | 1250U | S19 | W25 | .577 | 13278 | 8.6 | 25 | -F | 1 | C | 1250 | .30 | .38 | | | 7 |
| 489 MONT | 10 | 1333 | 1341 | 1339 | N07 | E21 | .356 | 13280 | 12.1 | 8 | -F | | C | 1339 | .20 | | | | 5 |
| 492 BJUL | 10 | 1432 | 1445 | 1438 | N11 | E22 | .379 | 13280 | 12.3 | 13 | -F | | C | 1438 | .11 | .12 | | | 4 |
| 493 BJUL | 10 | 1449 | 1501 | 1456 | N04 | W16 | .277 | 13279 | 9.4 | 12 | -F | | C | 1452 | .64 | .67 | | | 4 |
| 512 VORO | 11 | 0054 | 0110 | 0058 | N12 | E25 | .428 | 13280 | 12.9 | 16 | -B | | C | 0058 | .81 | .90 | | 69 | EHJL 4 |
| 515 VORO | 11 | 0134 | 0152 | 0138 | N12 | E02 | .107 | 13280 | 11.2 | 18 | -B | | C | 0138 | .81 | .80 | | 67 | EJL 4 |
| 516 TEHR | 11 | 0325E | 0333 | 0326U | S20 | W42 | .753 | 13278 | 8.0 | 80 | -F | 3 | V | | .31 | | | | 5 |
| 529 ATHN | 11 | 1137 | 11450 | 1141 | N12 | W03 | .114 | 13280 | 11.3 | 80 | -F | 2 | C | | .33 | | | | DE 5 |
| 530 ATHN | 11 | 1139 | 11450 | 1142 | N10 | E08 | .153 | 13280 | 12.1 | 60 | -F | 2 | C | | .17 | | | | DE 5 |
| 549 MANI | 12 | 0300 | 03080 | 0302 | N09 | E02 | .061 | 13280 | 12.3 | 80 | -N | 2 | | 0302 | .52 | .52 | | | F 5 |
| 551 PALE | 12 | 0337E | 03570 | 0337U | N12 | E02 | .108 | 13280 | 12.3 | 200 | 1N | 1 | C | | 3.07 | | | | DE 4 |
| 552 MANI | 12 | 0350 | 0353 | 0351 | S19 | W48 | .804 | 13278 | 8.6 | 9 | -N | 2 | | 0351 | .31 | .43 | | | 3 |
| 558 ATHN | 12 | 0617 | 0625 | 0621 | N12 | W14 | .259 | 13280 | 11.2 | 9 | -F | 2 | C | | .50 | | | | DE 4 |
| GRP61562 | 12 | 0745 | 0830 | 0755 | N11 | W14 | .253 | 13280 | 11.3 | 45 | -F | | | | .96 | | | | 2 2 2 7 |
| ATHN | 12 | 0745 | 08300 | 0754 | N11 | W13 | .238 | 13280 | 11.3 | 450 | -F | 2 | C | | .99 | | | | DE |
| MANI | 12 | 0755E | 07580 | 0755U | N11 | W15 | .269 | 13280 | 11.2 | 30 | -N | 1 | | 0755 | .93 | .96 | | | |
| 563 TEHR | 12 | 0843 | 0852 | 0848 | N11 | W15 | .269 | 13280 | 11.2 | 9 | -F | 4 | C | | .25 | | | | 4 |
| 581 ABST | 13 | 0720 | 07540 | 0722 | N15 | W20 | .368 | 13280 | 11.8 | 340 | -F | | P | 0722 | .87 | 1.00 | | | DJ 5 |
| GRP61582 | 13 | 0813 | 0819 | 0814 | N05 | W14 | .241 | 13280 | 12.3 | 6 | -F | | | | .44 | | | | 2 2 2 7 |
| ATHN | 13 | 0811 | 0815 | 0812 | N04 | W13 | .227 | 13280 | 12.4 | 4 | -F | 1 | | 0812 | .17 | .16 | | | |
| ABST | 13 | 0814 | 0822 | 0815 | N06 | W15 | .257 | 13280 | 12.2 | 8 | -F | | C | 0815 | .70 | .70 | | | DJ |

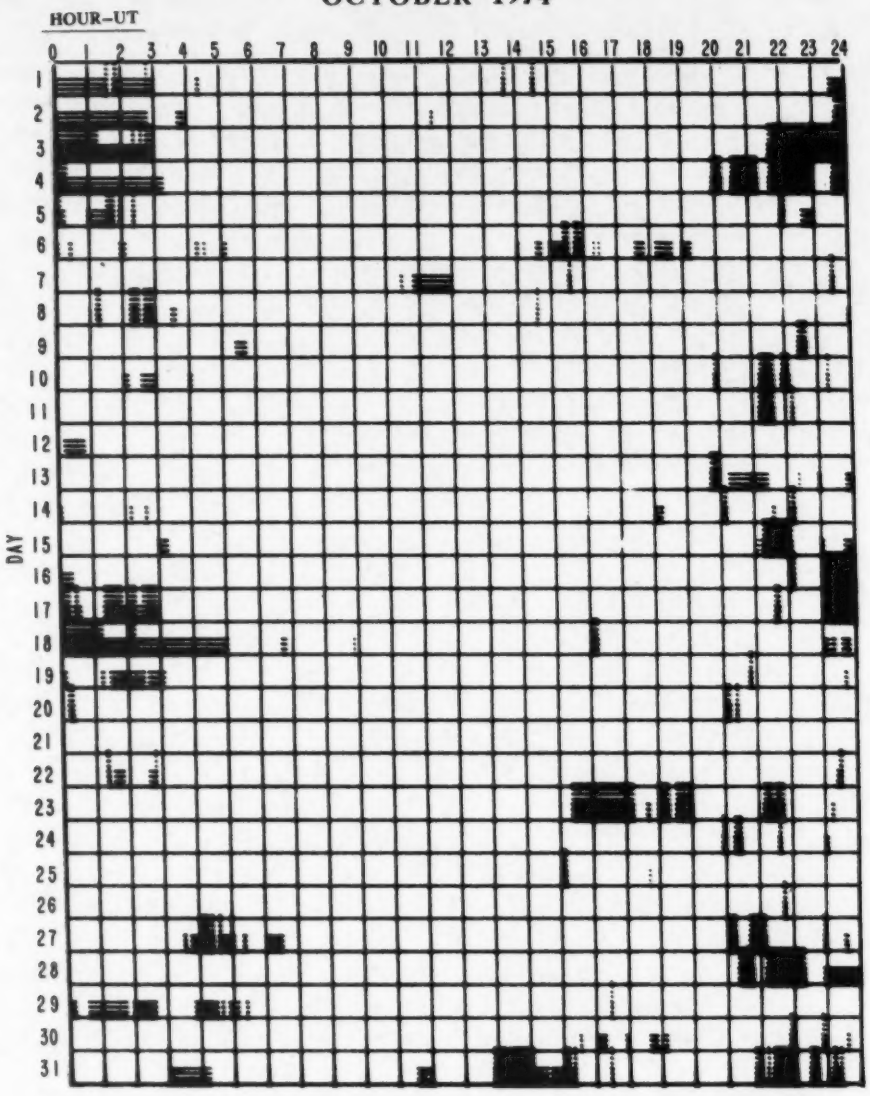
# Hα SOLAR FLARES
## Unconfirmed
### OCTOBER 1974

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURA-TION | IM-POR-TANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE OCT | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| 585 HUAN | 13 | 1407 | 1425 | | S17 | W69 | .951 | 13278 | 8.4 | 19 | -F | 1 | C | | | | | | 6 |
| 596 RAMY | 14 | 1421E | 1448D | 1428U | N07 | W49 | .751 | 13280 | 10.9 | 27D | -F | 3 | C | | .37 | | | | 4 |
| 597 HTPR | 14 | 1431 | 1457 | 1437 | N05 | W34 | .557 | 13280 | 12.1 | 26 | -N | | C | 1437 | .10 | .10 | | | D 5 |
| 600 MANI | 15 | 0054E | 0107 | 0054U | N09 | W54 | .805 | 13280 | 11.0 | 13D | -F | 1 | | 0054 | .41 | .67 | | | 3 |
| 603 HTPR | 15 | 0814 | 0850 | 0816 | N05 | W48 | .741 | 13280 | 11.7 | 36 | -F | | C | 0816 | .72 | 1.00 | | | 5 |
| 604 TEHR | 15 | 0929 | 0942 | 0931 | N10 | W47 | .728 | 13280 | 11.9 | 13 | -N | 4 | V | | .41 | | | | F 4 |
| GRP61505 | 15 | 1112 | 1129 | 1112 | N10 | W53 | .794 | 13280 | 11.5 | 17 | -N | | | | .17 | | | | 2 1 1 6 |
| TEHR | 15 | 1112E | 1129 | 1112U | N10 | W53 | .794 | 13280 | 11.5 | 17D | -N | 4 | V | | .17 | | | | DE |
| KHAR | 15 | 1128E | 1149D | | N12 | W58 | .844 | 13280 | 11.1 | 20D | -F | | V | 1140 | | | 1.20 | | D |
| 609 RAMY | 15 | 1402 | 1421 | 1414U | N04 | W75 | .965 | 13279 | 10.0 | 19 | -F | 4 | C | | .50 | | | | DE 4 |
| 610 PALE | 15 | 1723 | 1730 | 1726 | N09 | W52 | .784 | 13280 | 11.8 | 7 | -F | 2 | C | | .36 | | | | DE 6 |
| 618 VJRO | 16 | 0114 | 0119 | 0115 | N08 | W69 | .930 | 13280 | 10.9 | 5 | 1B | | C | 0115 | .81 | 2.40 | | 90 | DJ 3 |
| 619 PALE | 16 | 0121E | 0136D | 0122U | N14 | W62 | .879 | 13280 | 11.4 | 15D | -N | 2 | C | | 1.03 | | | | DE 4 |
| 619 PALE | 16 | 0133E | 0135D | 0135U | N12 | W54 | .805 | 13280 | 12.0 | 3D | *-F | 2 | C | | .31 | | | | DE 5 |
| 621 PALE | 16 | 0256E | 0302D | 0257U | N10 | W59 | .853 | 13280 | 11.7 | 6D | -F | 2 | C | | .26 | | | | DE 4 |
| 622 ABST | 16 | 0608 | 0618D | 0614 | N12 | W58 | .844 | 13280 | 11.9 | 10D | -F | | P | 0614 | 1.05 | 2.00 | | | FJK 3 |
| 623 ABST | 16 | 0642 | 0654D | 0650 | N11 | W57 | .834 | 13280 | 12.0 | 12D | -F | | P | 0650 | .96 | 1.90 | | | DJ 4 |
| 625 ABST | 16 | 0803 | 0808 | 0804 | N10 | W72 | .947 | 13280 | 10.9 | 5 | 1F | | C | 0804 | .79 | | | | DJ 5 |
| 628 MCMA | 16 | 1457 | 1510 | 1501 | S09 | E03 | .261 | 13286 | 16.8 | 13 | -F | | C | 1501 | .26 | .30 | | | DH 6 |
| 636 TEHR | 17 | 0720 | 0733 | 0726 | N12 | W79 | .976 | 13280 | 11.4 | 13 | -F | 4 | C | | .37 | | | | DE 5 |
| 637 ABST | 17 | 0748 | 0751 | 0749 | N10 | W69 | .927 | 13280 | 12.1 | 3 | -F | | C | 0749 | .79 | | | | DJ 8 |
| 640 MONT | 17 | 1231 | 1239 | 1232 | N15 | W69 | .924 | 13280 | 12.3 | 8 | -F | | C | 1232 | .20 | | | | 4 |
| 641 TEHR | 17 | 1257 | 1309 | 1301U | N08 | W71 | .940 | 13280 | 12.2 | 12 | -N | 3 | C | | .31 | | | | DE 4 |
| 642 MONT | 17 | 1401 | 1416 | 1407 | N12 | W87 | .997 | 13280 | 11.1 | 15 | -F | | C | 1407 | .20 | | | | 7 |
| 643 BOUL | 17 | 1435 | 1454 | 1437 | N15 | W68 | .918 | 13280 | 12.5 | 19 | -F | | C | 1437 | .21 | .54 | | | 8 |
| 645 MCMA | 17 | 1822 | 1835 | | N10 | W88 | .998 | 13280 | 11.2 | 13 | -F | | P | 1823 | | | | | 4 |
| 652 ATHN | 18 | 0825E | 0843 | 0830 | N10 | W90 | 1.000 | 13280 | 11.6 | 18D | -N | 3 | V | | | | | | DE 4 |
| 653 MONT | 18 | 1115 | 1132 | 1118 | N06 | W87 | .998 | 13280 | 11.9 | 17 | -N | | C | 1118 | 1.10 | | | | 4 |
| 655 HTPR | 18 | 1341 | 1355 | 1346 | N17 | W90 | 1.000 | 13280 | 11.8 | 14 | -F | | C | 1346 | .41 | | | | A 9 |
| 658 BOUL | 18 | 1825 | 1835 | 1829 | N08 | W90 | 1.000 | 13280 | 12.0 | 10 | -N | | C | 1829 | .21 | .87 | | | 5 |
| 659 HTPR | 20 | 1317 | 1335 | 1318 | N07 | W58 | .845 | 13292 | 16.2 | 18 | -F | | C | 1318 | .21 | .40 | | | D 7 |
| 661 RAMY | 21 | 1439 | 1530 | 1517U | N04 | W65 | .905 | 13292 | 16.7 | 51 | -F | 4 | C | | .28 | | | | DE H 5 |
| 662 HTPR | 22 | 1349 | 1407 | 1350 | S10 | W60 | .880 | 13302 | 18.1 | 18 | -F | | C | 1350 | .10 | .10 | | | 6 |
| 668 PALE | 24 | 0129 | 0142 | 0135 | S09 | W83 | .994 | 13302 | 17.8 | 13 | -N | 2 | C | | .27 | | | | 5 |
| 669 KODA | 24 | 0256 | 0320 | 0313 | S08 | W84 | .996 | 13302 | 17.8 | 24 | -N | | V | 0256 | | | 1.96 | | D 6 |
| 674 HTPR | 29 | 0844 | 0847 | 0845 | S08 | E26 | .483 | 13310 | 31.3 | 3 | -F | | C | 0845 | .21 | .20 | | | D 5 |
| 676 ATHN | 29 | 1422 | 1425 | 1423 | N02 | E42 | .669 | 13315 | 1.7 | 3 | -F | 3 | V | | .17 | | | | DE 3 |
| 679 HUAN | 31 | 1608E | 1639 | | N12 | E90 | 1.000 | 13324 | 7.4 | 31D | -N | 1 | P | 1608 | .20 | | | | C 2 |

# INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

## OCTOBER 1974




Observatories included in total patrol:

| | | | | |
|---|---|---|---|---|
| Abastumani | Catania | Hurbanovo | Manila | Ramey |
| Arcetri | Culgoora | Kharkov | McMath-Hulbert | Tachkent |
| Athenes | Haute Provence | Kiev | Mitaka | Teheran |
| Boulder | Herstmonceux | Kodaikanal | Monte Mario | Upice |
| Bucharest | Huancayo | Locarno | Palehua | Wendelstein |
| | | | | Voroshilov |

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3750 | TYKW | 20 | 0140 | 0235 | 160 | 4.0 | 2.0 | | |
| | 2000 | TYKW | 20 | 0140 | 0240 | 160 | 4.0 | 2.0 | | |
| | 9400 | TYKW | 5 | 0455 | 0510 | 45 | 4.0 | 2.0 | | |
| | 3750 | TYKW | 5 | 0455 | 0520 | 45 | 1.0 | 0.5U | | |
| | 100 | GORK | 44 | 0455 E | | 355 | | 5.0 | | |
| | 245 | SGMR | 44 | 1044 E | 2114.2 | 697 D | 78.8 | | | |
| | 100 | GORK | 44 | 1050 E | | 133 D | | 40.0 | | |
| | 260 | ONDR | 44 | 1110 | 1500.5 | 240 | 35.0 | | | |
| | 2000 | TYKW | 5 | 0510 | 0520. | 30 | 1.0 | 0.5U | | |
| | 100 | GORK | 6 | 0629.6 | 0631.2 | 3.5 | 60.0D | | | |
| | 100 | HIRA | 45 | 0629 | 0630.8 | 3.5 | 85.0 | 40.0 | | |
| | 260 | ONDR | 44 | 0640 | 0952 | 270 | 65.0 | | | |
| | 221 | ABST | 44 | 0700 | 1011.8 | 240 | 12.0 | | | |
| | 6100 | KISV | 20 | 0748 | 0815.5 | 60 | 3.0 | | | |
| | 29 | UPIC | 45 | 0901.5 | 0902.5 | 3.5 | | | | |
| | 536 | ONDR | 45 | 1114 | 1114 | 4 | 45.0 | | | |
| | 18 | MCMA | 42 | 1141 | 1205 | 40 | | | 1 | |
| | 2800 | OTTA | 20 | 1255 | 1302 | 20 | 1.8 | 0.9 | | |
| | 237 | TRST | 42 | 1255.8 | 1259.7 | 4.3 | 57.0 | | | |
| | 228 | HARS | 45 | 1259 | 1259.5 | 1 | 45.0 | 10.0 | | |
| | 2800 | OTTA | 20 | 1705 | 1750 | 90 | 1.8 | 0.9 | | |
| | 410 | SGMR | 6 | 1743.9 | 1744 | .2 | 7.8 | 3.1 | | |
| | 245 | SGMR | 6 | 1743.8 | 1744 | 2 | 145.8 | 29.2 | | |
| | 18 | MCMA | 41 | 1901 | 1904 | 3 | | | 1 | |
| | 2800 | OTTA | 20 | 1920 | | 100 | 1.4 | 0.8 | | |
| | 200 | HIRA | 45 | 2252 | 2252.5 | 2.5 | 40.0 | 10.0 | | |
| | 200 | HIRA | 45 | 2340 | 2340.8 | 1 | 140.0 | 30.0 | | |
| | 100 | HIRA | 45 | 2340 | 2341 | 2 | 90.0 | 30.0 | | |
| 2 | 100 | GORK | 44 | 0500 E | | 91 | | 5.0 | | |
| | 100 | GORK | 6 | 0628.6 | 0629.8 | 1.8 | 90.0D | | | |
| | 260 | ONDR | 44 | 0640 | 1503.5 | 507 | 50.0 | | | |
| | 245 | SGMR | 44 | 1043 E | 2145.4 | 694 D | 150.0 | | | |
| | 410 | SGMR | 43 | 2026.3 | 2052 | 112.7D | 12.7 | | | |
| | 207 | VORO | 44 | 2200 | 0011 | 240 | | 20.0 | | |
| | 18 | MCMA | 6 | 1751 | 1752 | 2 | | | 1 | |
| | 18 | MCMA | 41 | 1759 | 1802 | 8 | | | 1 | |
| | 410 | SGMR | 6 | 2006.7 | 2020.5 | 15.3 | 244.0 | 44.8 | | |
| | 245 | SGMR | 6 | 2009 | 2019.1 | 14.1 | 46.8 | 9.2 | | |
| | 2800 | OTTA | 20 | 2015 | 2020 | 25 | 1.2 | 0.6 | | |
| | 1415 | SGMR | 2 | 2017 | 2019.7 | 5.5 | 3.9 | 2.3 | | |
| | 18 | BOUL | 6 | 2018 | 2021 | 4 | | | 1 | |
| | 606 | SGMR | 4 | 2019.7 | 2020.3 | 1.8 | 12.4 | 7.4 | | |
| | 18 | MCMA | 6 | 2019 | 2021 | 3 | | | 2 | |
| | 100 | HIRA | 45 | 2145.2 | 2145.3 | 1 | 650.0 | 100.0 | | |
| 3 | 260 | ONDR | 41 | 0708 | 0728.5 | 93 | 15.0 | | | |
| | 3100 | CRIM | 3 | 1002 | 1006 | 15 | 3.0 | 1.0 | | |
| | 930 | BORD | 5 | 1117 | 1117.3 | 1 | 11.0 | 2.0 | | |
| | 18 | MCMA | 41 | 1715 | 1719 | 5 | | | 1 | |
| | 2800 | OTTA | 240 | 2000 | 2100 | 60 | 2.6 | 0.9 | | |
| | 960 | PENN | 24 | 2021 | 2200 | | 2.4 | | | |
| | 2700 | PENN | 24 | 2033.1 | 2146 | | 3.4 | | | |
| | 10700 | PENN | 24 | 2045 | 2146.8 | | 8.5 | | | |
| | 2800 | OTTA | 24P | 2100 | | 180 D | 2.6 | | | |
| | 1415 | SGMR | 22 | 2100 | 2148.9 | 78 D | 59.2 | 17.8 | | |
| | 2800 | OTTA | 21 | 2105 | 2145 | 100 | 1.8 | 1.0 | | |
| | 960 | PENN | 45 | 2109 | | | 110.0D | | | |
| | 410 | SGMR | 6 | 2110.6 | 2149.3 | 67.4D | 118.1 | 35.4 | | |
| | 245 | SGMR | 6 | 2110.6 | 2147.1 | 67.4D | 136.5 | 41.0 | | |
| | 606 | SGMR | 47 | 2114.8 | 2147.9 | 63.2D | 1370.0 | 548.0 | | |
| | 500 | HIRA | 45 | 2115 | 2149 | 43 | 400.0 | 45.0 | | |
| | 1420 | BOUL | 45 | 2124 | 2148.5 | 41.5 | 18.0 | 3.0 | | |
| | 2800 | OTTA | 1 | 2135 | 2139 | 7 | 1.6 | 0.8 | | |
| | 2695 | BOUL | 45 | 2137.5 | 2140.5 | 4 | 3.0 | 1.0 | | |
| | 2000 | TYKW | 45 | 2137 E | 2148 U | 35 D | 20.0U | 5.0U | | |
| | 1000 | TYKW | 45 | 2137 E | 2146.7U | 35 D | 100.0U | 15.0U | | |
| | 2695 | PENT | 1 | 2146 | 2147 | 3 | 4.0 | 1.8 | | ARO PF=1.3 |
| | 2695 | BOUL | 45 | 2146.5 | 2147 | 2.5 | 5.0 | 2.0 | | |
| | 207 | VORO | 44 | 2200 | 0116 | 240 | | 13.0 | | |
| 4 | 260 | ONDR | 44 | 0640 | 1102 | 512 | 180.0 | | | |
| | 221 | ABST | 44 | 0700 | 0916 | 240 | 9.0 | | | |
| | 410 | SGMR | 44 | 1047 E | 1507.2 | 689 D | 10.2 | | | |
| | 245 | SGMR | 44 | 1047 E | 1131.6 | 689 D | 6.8 | | | |
| | 207 | VORO | 44 | 2200 | 0120 | 240 | | 19.0 | | |
| | 3100 | CRIM | 20 | 0748 | 0833 | 147 | 4.0 | 1.0 | | |
| | 188 | KIEV | 43 | 0805 | | 330 D | 113.0 | 29.0 | | |
| | 536 | ONDR | 45 | 0825.5 | 0917.5 | 94.5 | 40.0 | | | |
| | 234 | POTS | 41 | 0856.1 | 0856.2 | 5.9 | 175.0 | 1.0E | | |
| | 29 | UPIC | 5 | 0901.5 | 0902 | .5 | | | | |
| | 221 | ABST | | 0914.8 | 0916 | 3.8 | 39.0 | 13.0 | | |
| | 221 | ABST | | 0923.8 | 0924 | 1.5 | 33.0 | 11.0 | | |
| | 221 | ABST | | 0955 | 0956.2 | 1.8 | 48.0 | 15.0 | | |
| | 221 | ABST | | 1013.8 | 1014.2 | 1.2 | 27.0 | 8.0 | | |
| | 221 | ABST | | 1029.8 | 1030.2 | 1 | 35.0 | 11.0 | | |
| | 234 | POTS | 41 | 1107.1 | 1113 | 8.3 | 450.0 | 1.0 | | |
| | 1470 | BERL | 4 | 1116.6 | 1117 | 1 | 6.7 | 2.6 | | |
| | 9500 | BERL | 20 | 1130 | 1200 | 80 | 6.6 | | | |
| | 3000 | BERL | 20 | 1130 | 1214 | 85 | 1.9 | | | |

# SOLAR RADIO EMISSION
## OUTSTANDING OCCURRENCES

### OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1470 | BERL | 20 | 1130 | 1136.4 | 35 | 1.3 | | | |
| | 234 | POTS | 45 | 1134.7 | 1134.8 | .5 | 550.0 | 50.0 | | |
| | 8800 | ATHN | 20 | 1144.3 | 1150.7 | 11.9 | 8.1 | 4.9 | | |
| | 1415 | ATHN | 20 | 1146.8 | 1151 | 11 | 4.9 | 2.9 | | |
| | 2695 | ATHN | 20 | 1147.7 | 1151.9 | 11 | 4.7 | 2.8 | | |
| | 3000 | BERL | 1 | 1307.5 | 1308.2 | 2 | 6.0 | 2.3 | | |
| | 1470 | BERL | 20 | 1314 | 1317.5 | 11 | 1.7 | | | |
| | 3000 | BERL | 2 | 1316.5 | 1318 | 2 | 3.3 | | | |
| | 9500 | BERL | 20 | 1319 | 1325 | 26 | 6.6 | | | |
| | 8800 | SGMR | 4 | 1324.3 | 1326.8 | 5.7 | 22.9 | 6.7 | | |
| | 3000 | BERL | 2 | 1327 | 1327.3 | 2 | 1.9 | | | |
| | 3000 | BERL | 1 | 1335.5 | 1336.2 | 2 | 5.6 | 2.3 | | |
| | 2800 | OTTA | 240 | 1335 | 1420 | 45 | 3.0 | 1.5 | | |
| | 113 | POTS | 45 | 1413.2 | 1413.3 | .3 | 200.0 | 50.0 | | |
| | 2800 | OTTA | 24P | 1420 | | 540 D | 3.0 | | | |
| | 1470 | BERL | 2 | 1426.8 | 1427.4 | 1.7 | 5.2 | 1.9 | | |
| | 2800 | OTTA | 1 | 1427 | 1428 | 2 | 2.2 | 1.0 | | |
| | 2800 | OTTA | 20 | 1430 | 1505 | 100 | 1.8 | 1.0 | | |
| | 2800 | OTTA | 21 | 1620 | 1755 | 150 | 2.4 | 1.2 | | |
| | 2800 | OTTA | 1 | 1724 | 1726 | 5 | 1.2 | 0.6 | | |
| | 2800 | OTTA | 20 | 1905 | 2120 | 170 | 3.6 | 1.8 | | |
| 5 | 100 | GORK | 44 | 0448 E | | 432 D | | 50.0 | | |
| | 200 | GORK | 44 | 0500 | | 420 | | 5.0 | | |
| | 260 | ONDR | 44 | 0630 | 0836 | 502 | 45.0 | | | |
| | 221 | ABST | 44 | 0700 | 1037.5 | 240 | 6.0 | | | |
| | 188 | KIEV | 44 | 0810 | | 390 D | 151.0 | 33.0 | | |
| | 245 | SGMR | 44 | 1049 E | 1492.4 | 685 D | 100.1 | | | |
| | 3100 | CRIM | 24 | 0556 | 0629 | | 7.0 | | | |
| | 3100 | CRIM | 1 | 0738 | 0740 | 5 | 3.0 | 1.0 | | |
| | 1470 | BERL | 2 | 0738.5 | 0741 | 4 | 3.3 | 1.0 | | |
| | 29 | UPIC | 45 | 0738.5 | 0741 | 3.5 | | | | |
| | 9500 | BERL | 1 | 0739 | 0741 | 3 | 2.7 | | | |
| | 113 | POTS | 40 | 0739.6 | 0739.7 | 1.2 | 280.0 | 7.0 | | |
| | 3000 | BERL | 1 | 0740 | 0741 | 2.5 | 1.3 | | | |
| | 221 | ABST | | 0810 | 0811 | 1.5 | 20.0 | 6.0 | | |
| | 221 | ABST | | 0821.5 | 0822 | 1.5 | 25.0 | 8.0 | | |
| | 221 | ABST | | 0837.2 | 0838 | 1.5 | 32.0 | 10.0 | | |
| | 3100 | CRIM | 20 | 0949 | 0953 | 78 | 4.0 | 1.0 | | |
| | 221 | ABST | 6 | 1037.2 | 1037.5 | .5 | 47.0 | | | |
| | 1470 | BERL | 2 | 1235.2 | 1235.5 | 1.8 | 5.0 | 1.7 | | |
| | 510 | POTS | 45 | 1235.5 | 1235.7 | 3 | 70.0 | 7.0 | | |
| | 2800 | OTTA | 240 | 1415 | 1440 | 25 | 4.8 | 2.4 | | |
| | 2800 | OTTA | 24P | 1440 | | 560 D | 4.8 | | | |
| | 2800 | OTTA | 40 | 1442 | 1452 | 48 | 2.9 | | | |
| | 930 | BORD | 45 | 1508 | 1509.2 | 2 | 11.0 | 2.0 | | |
| | 2800 | OTTA | 1 | 1551 | 1553 | 3 | 1.4 | 0.7 | | |
| | 1415 | SGMR | 22 | 1613.3 | 1632.2 | 42.7 | 22.6 | 13.5 | | |
| | 2700 | PENN | 45 | 1615 | 1631.8 | 34 | 59.6 | 20.2 | | |
| | 4995 | BOUL | 45 | 1617 | 1631.5 | 36.5 | 50.0 | 13.0 | | |
| | 10700 | PENN | 20 | 1618.2 | 1631.8 | 40.6 | 16.0 | 5.9 | | |
| | 4995 | SGMR | 22 | 1618.6 | 1631.5 | 33.4 | 47.1 | 28.3 | | |
| | 2800 | OTTA | 4 | 1618 | 1632 | 32 | 63.0 | 24.0 | | |
| | 2695 | SGMR | 22 | 1618 | 1631.8 | 38.6 | 58.8 | 35.3 | | |
| | 1420 | BOUL | 45 | 1618 | 1631.5 | 28 | 16.0 | 6.0 | | |
| | 960 | PENN | 20 | 1618.2 | 1628.1 | 32.2 | 9.2 | 3.9 | | |
| | 8800 | SGMR | 22 | 1619 | 1631.2 | 34.5 | 26.0 | 15.6 | | |
| | 7000 | SAOP | 21 | 1619.5 | | 32.5 | 51.9 | | | |
| | 2695 | BOUL | 3 | 1619 | 1633.5 | 40 | 40.0 | 10.0 | | |
| | 606 | SGMR | 22 | 1619 | 1632 | 29.5 | 3.7 | 2.2 | | |
| | 15400 | SGMR | 22 | 1622 | 1631.7 | 20.9 | 9.7 | 5.8 | | |
| | 18 | MCMA | 41 | 1622 | 1627 | 11 | | | 1 | |
| | 7000 | SAOP | 3 | 1626.8 | | 3.2 | 17.2 | 8.5 | | |
| | 7000 | SAOP | 3 | 1630 | | 4.6 | 27.5 | 13.7 | | |
| | 8800 | PALE | 22 | 1639.3 | 1641.3 | | | | | |
| | 1415 | PALE | 22 | 1639.3 | 1645.5 | | | | | |
| | 2800 | OTTA | 29 | 1650 | 1650 | 140 | 2.8 | 2.5 | | |
| | 18 | MCMA | 6 | 1709 | 1710 | 3 | | | 1 | |
| | 2800 | OTTA | 20 | 1920 | 1950 | 50 | 1.8 | 0.9 | | |
| 6 | 2000 | TYKW | 45 | 0053 | 0053.5 | 1.5 | 19.0 | 6.0 | | |
| | 9400 | TYKW | 45 | 0110 | 0127.1 | 40 | 18.0 | 11.0 | | |
| | 3750 | TYKW | 45 | 0110 | 0127.1 | 30 | 55.0 | 12.0 | | |
| | 2000 | TYKW | 45 | 0110 | 0127.2 | 30 | 16.0 | 3.0 | | |
| | 4995 | MANI | 4 | 0112.2 | 0127.3 | 27.3 | 69.0 | 12.9 | | |
| | 2695 | MANI | 4 | 0112.1 | 0127.3 | 14.8 | 28.2 | 9.4 | | |
| | 8800 | MANI | 4 | 0114.5 | 0121.5U | 21.5U | 35.2U | 8.8U | | RFI |
| | 8800 | PALE | 22 | 0114.4 | 0127 | 18.8 | 12.0 | 7.5 | | |
| | 1415 | PALE | 22 | 0122.9 | 0127.1 | 12.5 | 4.8 | 2.9 | | |
| | 2930 | VORO | 4 | 0124 | 0126 | 5 | 45.0 | | | |
| | 1415 | MANI | 1 | 0126 | 0127.3 | 3.5 | 1.4 | .5 | | |
| | 3750 | TYKW | 29 | 0140 | | 140 | 11.0 | 5.0 | | |
| | 2000 | TYKW | 29 | 0140 | | 140 | 3.0 | 1.5 | | |
| | 9400 | TYKW | 29 | 0150 | | 130 | 11.0 | 5.0 | | |
| | 9400 | TYKW | 45 | 0220 | 0234.1 | 80 | 11.0 | 4.0 | | |
| | 3750 | TYKW | 45 | 0220 | 0234.1 | 80 | 19.0 | 5.0 | | |
| | 8800 | MANI | 22 | 0226 | 0234.2 | 20.6 | 18.5 | 9.3 | | |
| | 4995 | MANI | 22 | 0226 | 0234.2 | 22.2 | 26.6 | 8.3 | | |
| | 8800 | PALE | 22 | 0230.3 | 0234 | 39.2 | 15.0 | 8.7 | | |
| | 2695 | MANI | 2 | 0230 | 0233.1 | 8.6 | 7.4 | 1.9 | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 2000 | TYKW | 5 | 0230 | 0234 | 70 | 3.0 | 1.0 | | |
| | 200 | GORK | 6 | 0508.4 | 0508.6 | .6 | | | | |
| | 100 | GORK | 6 | 0508.4 | 0508.7 | 1 | 60.0D | | | |
| | 3100 | CRIM | 20 | 0540 | 0602 | 75 | 4.0 | 1.0 | | |
| | 6100 | KISV | 1 | 0600 | 0602 | 4 | 3.0 | | | |
| | 6100 | KISV | 41 | 0640.3 | 0640.8 | 8 | 4.0 | | | |
| | 260 | ONDR | 44 | 0654 | 1002 | 490 | 45.0 | | | |
| | 100 | GORK | 44 | 0954 | | 126 | | 5.0 | | |
| | 6100 | KISV | 1 | 0748.8 | 0749.6 | 6 | 5.0 | | | |
| | 200 | GORK | | 0749.4 | 0752.2 | | | | | |
| | 100 | GORK | 41 | 0749.4 | 0749.5 | 4.3 | 50.0 | | | |
| | 100 | GORK | | 0749.4 | 0751 | | 50.0 | | | |
| | 100 | GORK | | 0749.4 | 0752.6 | | 50.0 | | | |
| | 200 | GORK | 41 | 0750 | 0751 | 3.2 | | | | |
| | 6100 | KISV | 1 | 0811 | 0811.6 | 2 | 4.0 | | | |
| | 536 | ONDR | 45 | 0942 | 0946 | 23 | 40.0 | | | |
| | 6100 | KISV | 4 | 0948.5 | 0950 | 10 | 10.0 | | | |
| | 3100 | CRIM | 24 | 1007 | 1121 | | 6.0 | | | |
| | 1470 | BERL | 4 | 1223.5 | 1224.5 | 2 | 6.5 | 2.4 | | |
| | 245 | SGMR | 6 | 1223.1 | 1224.4 | 6.7 | 23.9 | 7.0 | | |
| | 188 | KIEV | 6 | 1223.5 | 1226.7 | 4.2 | 97.0 | | | |
| | 1415 | SGMR | 2 | 1224.6 | 1224.7 | 1.3 | 8.3 | 1.7 | | |
| | 606 | SGMR | 1 | 1224.5 | 1225.2 | 2.7 | 6.1 | 1.2 | | |
| | 113 | POTS | 45 | 1224.2 | 1224.9 | 2.5 | 200.0 | 15.0 | | |
| | 29 | UPIC | 45 | 1226 | 1227 | 2 | | | | |
| | 7000 | SAOP | 1 | 1616.3 | | .7 | 8.6 | 4.0 | | |
| | 7000 | SAOP | 20 | 1700 | | 5 | 13.4 | | | |
| | 18 | MCMA | 6 | 1716 | 1719 | 4 | | | 2 | |
| | 10700 | PENN | 1 | 1825.8 | 1826 | 1.5 | 8.1 | 1.4 | | |
| | 2800 | OTTA | 21 | 1920 | 2128 | 160 D | 12.2 | | | |
| | 18 | MCMA | 6 | 2009 | 2011 | 2 | | | 2 | |
| | 2700 | PENN | 24 | 2022.4 | 2141.5 | | 4.9 | | | |
| | 10700 | PENN | 24 | 2040.2 | 2141.5 | | 12.3 | | | |
| | 2800 | OTTA | 1 | 2123.5 | 2124.2 | 2 | 6.0 | 3.0 | | |
| | 2700 | PENN | 45 | 2123 | 2134.6 | 18.5 | 22.5 | 5.8 | | |
| | 1420 | BOUL | 8 | 2123.5 | 2124 | 1 | 5.0 | 2.0 | | |
| | 8800 | PALE | 21 | 2124.1 | 2126.8 | 41.5 | 11.0 | 6.9 | | |
| | 2695 | BOUL | 45 | 2124.5 | 2128.5 | 6 | 6.0 | 2.0 | | |
| | 1415 | SGMR | 22 | 2124 | 2124.5 | 14 | 5.3 | 1.6 | | |
| | 1415 | PALE | 20 | 2124 | 2124.3 | 14.3 | 4.3 | 2.6 | | |
| | 10700 | PENN | 3 | 2126 | 2134.6 | 15.5 | 16.7 | 1.8 | | |
| | 606 | SGMR | 20 | 2127.9 | 2128.5 | 10.1 | 2.1 | .6 | | |
| | 4995 | BOUL | 8 | 2132 | 2134 | 3.5 | 33.0 | 9.0 | | |
| | 8800 | PALE | 4 | 2133.6 | 2134.3 | 2.5 | 17.0 | 5.0 | | |
| | 2800 | OTTA | 4 | 2133 | 2134.5 | 3 | 27.8 | 13.6 | | |
| | 2695 | BOUL | 8 | 2133.5 | 2135 | 6 | 19.0 | 7.0 | | |
| | 2800 | OTTA | 29 | 2136 | 2136 | 4 | 3.4 | 1.7 | | |
| | 3750 | TYKW | 5 | 2215 | 2218.3 | 7 | 5.0 | 2.0 | | |
| | 2695 | BOUL | 3 | 2217.5 | 2219 | 3 | 4.0 | 1.0 | | |
| | 207 | VORO | 42 | 2227 | 2243 | 18 | 23.0 | | | |
| | 3750 | TYKW | 5 | 2229 | 2232 | 6 | 3.0 | 1.0 | | |
| | 2695 | BOUL | 3 | 2229.5 | 2233 | 5 | 3.0 | 1.0 | | |
| | 3750 | TYKW | 5 | 2239 | 2241 | 5 | 2.0 | 1.0 | | |
| 7 | 4995 | MANI | 3 | 0028.7 | 0030.2 | 12.4 | 35.2 | 8.6 | | |
| | 9400 | TYKW | 5 | 0029.5 | 0030 | 1.5 | 4.0 | 1.0 | | |
| | 3750 | TYKW | 5 | 0029 | 0030 | 2 | 15.0 | 5.0 | | |
| | 3750 | TYKW | 29 | 0031 | | 30 | 3.0 | 2.0 | | |
| | 3750 | TYKW | 20 | 0210 | 0315 | 120 | 4.0 | 2.0 | | |
| | 2000 | TYKW | 20 | 0210 | 0310 | 110 | 3.0 | 1.0 | | |
| | 9400 | TYKW | 20 | 0300 | 0325 | 60 | 5.0 | 2.0 | | |
| | 3750 | TYKW | 5 | 0427 | 0428.3 | 10 | 3.0 | 1.0 | | |
| | 100 | GORK | 44 | 0500 E | | 480 D | | 5.0 | | |
| | 260 | ONDR | 41 | 0700 | 1458.5 | 480 | 30.0 | | | |
| | 3750 | TYKW | 45 | 0509 | 0530 | 40 | 6.0 | 2.0 | | |
| | 2000 | TYKW | 45 | 0515 | 0529 | 60 | 4.0 | 1.0 | | |
| | 9400 | TYKW | 5 | 0520 | 0540 | 50 | 2.0 | 1.0 | | |
| | 3100 | CRIM | 20 | 0525 | 0529 | 17 | 7.0 | 2.0 | | |
| | 3750 | TYKW | 5 | 0549 | 0550.2 | 4 | 3.0 | 1.0 | | |
| | 6100 | KISV | 1 | 0654 | 0655 | 5 | 4.0 | | | |
| | 3100 | CRIM | 3 | 0727 | 0730 | 9 | 4.0 | 1.0 | | |
| | 3000 | BERL | 1 | 0727 | 0729.8 | 4.5 | 3.2 | 0.9 | | |
| | 6100 | KISV | 1 | 0728 | 0729.7 | 4 | 4.0 | | | |
| | 9500 | BERL | 20 | 0730 | 0801 | 65 | 5.1 | | | |
| | 930 | BORD | 45 | 0811 | 0811.3 | 1 | 10.0 | 2.0 | | |
| | 550 | KIEV | 41 | 0812.9 | 0813.5 | 3.7 | 51.0 | | | |
| | 3000 | BERL | 20 | 0835 | 0847.5 | 44 | 3.2 | | | |
| | 930 | BORD | 5 | 0835 | 0835 | 1 | 48.0 | 1.0 | | |
| | 9500 | BERL | 20 | 0840 | 0913 | 60 | 5.1 | | | |
| | 6100 | KISV | 20 | 0845 | 0852.5 | 16 | 10.0 | | | |
| | 3100 | CRIM | 46 | 0847 | 0849 | 14 | 4.0 | 1.0 | | |
| | 3100 | CRIM | 1 | 0907 | 0909 | 5 | 3.0 | 1.0 | | |
| | 200 | GORK | 6 | 0937.7 | 0938.2 | 1 | | | | |
| | 1470 | BERL | 4 | 0951.5 | 0952.2 | 1.7 | 9.5 | 3.3 | | |
| | 510 | POTS | 45 | 0951.5 | 0952.5 | 1.2 | 70.0 | 5.0 | | |
| | 1470 | BERL | 4 | 1002.5 | 1003 | 1 | 13.0 | 4.2 | | |
| | 510 | POTS | 45 | 1002.5 | 1002.7 | 1 | 70.0 | 15.0 | | |
| | 200 | GORK | 41 | 1040.2 | 1040.4 | .6 | 70.0 | | | |
| | 200 | GORK | | 1040.2 | 1040.7 | | 15.0 | | | |
| | 550 | KIEV | 41 | 1054.4 | 1054.6 | 13.7 | 40.0 | | | |

# SOLAR RADIO EMISSION
## OUTSTANDING OCCURRENCES

### OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 9500 | BERL | 20 | 1125 | 1241.5 | 187 | 6.4 | | | |
| | 1470 | BERL | 20 | 1125 | 1238.2 | 165 | 4.2 | | | |
| | 3000 | BERL | 20 | 1135 | 1230.2 | 160 | 9.3 | | | |
| | 2800 | OTTA | 23 | 1215 | 1235 | 85 | 5.0 | 2.6 | | |
| | 2800 | OTTA | 2 | 1223 | 1230 | 9 | 4.2 | 2.1 | | |
| | 550 | KIEV | 41 | 1350 | 1354 | 4.5 | 39.0 | | | |
| | 2800 | OTTA | 20 | 1435 | 1625 | 170 | 3.2 | 1.6 | | |
| | 18 | MCMA | 6 | 1520 | 1521 | 2 | | | 1 | |
| | 8800 | SGMR | 4 | 1534.9 | 1536.5 | 5.9 | 61.0 | 18.3 | | |
| | 9240 | ARCE | 21 | 1535.7 | 1550 | 22.5 | | | | |
| | 15400 | SGMR | 4 | 1536.4 | 1536.7 | 1.9 | 29.8 | 8.9 | | |
| | 10700 | PENN | 3 | 1536.4 | 1536.8 | 5.9 | 56.4 | 4.2 | | |
| | 9240 | ARCE | 3 | 1536.5 | 1536.8 | 2 | | | | |
| | 7000 | SAOP | 8 | 1536.1 | 1536.4 | .5 | 60.0 | | | |
| | 7000 | SAOP | 29 | 1536.6 | | 1 | | | | |
| | 4995 | BOUL | 8 | 1536 | 1536.5 | 2 | 16.0 | 5.0 | | |
| | 4995 | SGMR | 3 | 1536.3 | 1536.8 | 10.5 | 16.0 | 4.8 | | |
| | 2695 | SGMR | 2 | 1536.3 | 1536.8 | 1.7 | 2.0 | .6 | | |
| | 245 | SGMR | 43 | 1604 | 1939 | 366.8D | 67.2 | | | |
| | 207 | VORO | 44 | 2200 | 2227 | 208 | | 20.0 | | |
| | 2800 | OTTA | 240 | 1755 | 2020 | 145 | 5.0 | 2.8 | | |
| | 4995 | SGMR | 20 | 1831.3 | 1832 | 21.3 | 4.3 | 1.7 | | |
| | 2695 | SGMR | 20 | 1831.2 | 1831.9 | 22.2 | 1.6 | .6 | | |
| | 2800 | OTTA | 24P | 2020 | | 220 D | 5.0 | | | |
| | 2695 | PENT | 20 | 2205 | 2245 | 85 | 1.8 | 1.0 | | |
| | 3750 | TYKW | 45 | 2242 | 2243.3 | 4 | 4.0 | 2.0 | | |
| 8 | 200 | GORK | 44 | 0458 E | | 389 | | 5.0 | | |
| | 100 | GORK | 44 | 0500 E | | 480 D | | 10.0 | | |
| | 260 | ONDR | 41 | 0657 | 1017.5 | 493 | 30.0 | | | |
| | 3100 | CRIM | 24 | 0551 | 0700 | | 6.0 | 2.0 | | |
| | 6100 | KISV | 1 | 0606.3 | 0607.5 | 2 | 2.0 | | | |
| | 9400 | TYKW | 45 | 0620 | 0634.5 | 20 | 5.0 | 2.0 | | |
| | 6100 | KISV | 3 | 0620.5 | 0624 | 12 | 12.0 | | | |
| | 3750 | TYKW | 5 | 0620 | 0624 | 20 | 6.0 | 2.0 | | |
| | 3750 | TYKW | 5 | 0634 | 0634.5 | 1 | 3.0 | 1.0 | | |
| | 2000 | TYKW | 5 | 0634 | 0634.6 | 1.5 | 3.0 | 1.0 | | |
| | 1000 | TYKW | 5 | 0634.5 | 0634.7 | .5 | 1.0 | 0.3U | | |
| | 6100 | KISV | 1 | 0714 | 0714.3 | 1 | 2.0 | | | |
| | 6100 | KISV | 1 | 0716 | 0717 | 7 | 4.0 | | | |
| | 29 | UPIC | 45 | 0734 | 0736 | 3 | | | | |
| | 6100 | KISV | 1 | 0841.3 | 0842 | 3 | 2.0 | | | |
| | 6100 | KISV | 1 | 0949.5 | 0950.8 | 4 | 3.0 | | | |
| | 6100 | KISV | 3 | 1023 | 1028 | 22 | 12.0 | | | |
| | 9500 | BERL | 1 | 1027 | 1027.8 | 3.5 | 9.2 | | | |
| | 3000 | BERL | 22 | 1108 | 1138 | 162 | 8.6 | | | |
| | 3100 | CRIM | 24 | 1111 | 1116 | 106 | 9.0 | 3.0 | | |
| | 9500 | BERL | 21 | 1114.5 | 1155 | 178 | 5.4 | | | |
| | 6100 | KISV | 46 | 1114 | 1118 | 10 | 27.0 | | | |
| | 1470 | BERL | 22 | 1115 | 1137.5 | 165 | 5.7 | | | |
| | 9500 | BERL | 3 | 1116 | 1117.8 | 3.5 | 16.0 | | | |
| | 9500 | BERL | 3 | 1129 | 1130 | 7 | 13.0 | | | |
| | 2800 | OTTA | 27A | 1255 | | 175 | 2.0 | 1.8 | | |
| | 2800 | OTTA | 24 | 1255 | 1320 | 25 | 2.0 | 1.0 | | |
| | 8800 | SGMR | 3 | 1310.9 | 1311.9 | 7.3 | 23.2 | 7.0 | | |
| | 8800 | ATHN | 3 | 1310.8 | 1311.7 | 1.9 | 20.8 | 6.2 | | |
| | 7000 | SAOP | 3 | 1310.9 | | 3.1 | 22.2 | 11.1 | | |
| | 4995 | SGMR | 1 | 1310.6 | 1311.9 | 7.7 | 2.8 | .8 | | |
| | 2800 | OTTA | 20 | 1310 | 1315 | 10 | 1.4 | 0.7 | | |
| | 9500 | BERL | 3 | 1311 | 1311.8 | 2 | 19.0 | | | |
| | 2800 | OTTA | 24P | 1320 | | 140 | 2.0 | | | |
| | 930 | BORD | 45 | 1342 | 1342.7 | 1 | 145.0 | 2.0 | | |
| | 7000 | SAOP | 20 | 1348.6 | | 4.9 | 15.5 | | | |
| | 9500 | BERL | 3 | 1404.5 | 1404.7 | .8 | 11.0 | | | |
| | 8800 | SGMR | 3 | 1404.5 | 1404.7 | 1.3 | 14.0 | 4.2 | | |
| | 7000 | SAOP | 1 | 1404.2 | 1404.9 | 1.1 | 15.2 | 7.5 | | |
| | 4995 | SGMR | 1 | 1404.3 | 1404.8 | 2.3 | 9.6 | 2.9 | | |
| | 3000 | BERL | 21 | 1415 | 1458.5 | 50 D | 14.0 | | | |
| | 2700 | PENN | 20 | 1419.1 | 1458.2 | 71.1 | 17.0 | 5.2 | | |
| | 2800 | OTTA | 20 | 1420 | 1458 | 75 | 15.8 | 4.0 | | |
| | 4995 | SGMR | 2 | 1428.5 | 1431.1 | 3.3 | 7.2 | 2.2 | | |
| | 15400 | SGMR | 4 | 1430.3 | 1431.1 | 1.2 | 19.0 | 5.7 | | |
| | 8800 | SGMR | 4 | 1430.8 | 1431.1 | .8 | 14.0 | 4.2 | | |
| | 2695 | SGMR | 2 | 1430.5 | 1431.1 | 1.3 | 5.4 | 1.6 | | |
| | 1415 | SGMR | 2 | 1430.8 | 1431.1 | .5 | 3.1 | .9 | | |
| | 606 | SGMR | 2 | 1430.8 | 1431.1 | .7 | 3.1 | .9 | | |
| | 9500 | BERL | 4 | 1447 | 1449.4 | 18 | 35.0 | 13.0 | | |
| | 8800 | ATHN | 3 | 1447.7 | 1449.7 | 4.7 | 36.8 | 11.0 | | |
| | 15400 | SGMR | 4 | 1448.3 | 1449.3 | 11.8 | 58.5 | 17.6 | | |
| | 8800 | SGMR | 4 | 1448 | 1449.5 | 12 | 39.4 | 11.8 | | |
| | 7000 | SAOP | 3 | 1449.2 | | 4.4 | 24.9 | 12.6 | | |
| | 4995 | SGMR | 20 | 1449.2 | 1450.1 | 36.1 | 4.8 | 1.4 | | |
| | 2695 | ATHN | 20 | 1449.6 | 1458.2 | 14.2 | 20.3 | 12.2 | | |
| | 2695 | SGMR | 20 | 1450.5 | 1458 | 32.9 | 11.3 | 3.4 | | |
| | 2695 | BOUL | 45 | 1450 | 1459 | 29 | 13.0 | 4.0 | | |
| | 7000 | SAOP | 29 | 1453.6 | | 5.7 | | | | |
| | 18 | MCMA | 6 | 1508 | 1509 | 3 | | | 1 | |
| | 2800 | OTTA | 26 | 1540 | 1550 | 10 | -2.0 | -1.0 | | |
| | 18 | MCMA | 42 | 1552 | 1635 | 51 | | | 1 | |
| | 1420 | BOUL | 8 | 1629.5 | 1629.5 | 2.5 | 7.0 | 2.0 | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 2800 | OTTA | 27A | 1705 | | 65 | 1.6 | 1.4 | | |
| | 2800 | OTTA | 24 | 1705 | 1713 | 8 | 1.6 | 0.8 | | |
| | 18 | MCMA | 42 | 1707 | 1709 | 16 | | | 1 | |
| | 2800 | OTTA | 24P | 1713 | | 52 | 1.6 | | | |
| | 2700 | PENN | 20 | 1716.1 | 1744.4 | 48.3 | 28.3 | 3.7 | | |
| | 4995 | BOUL | 8 | 1740 | 1743 | 15.5 | 59.0 | 21.0 | | |
| | 4995 | SGMR | 4 | 1740 | 1743.3 | 5.5 | 75.9 | 22.8 | | |
| | 7000 | SAOP | 4 | 1741.6 | 1743.9 | 5.5 | 115.2 | 41.7 | | |
| | 2695 | SGMR | 4 | 1741.8 | 1743.4 | 3.7 | 23.2 | 7.0 | | |
| | 15400 | SGMR | 3 | 1742.4 | 1743.6 | 2.9 | 27.3 | 8.2 | | |
| | 10700 | PENN | 45 | 1742 | 1743.8 | 3.2 | 57.7 | 29.2 | | |
| | 8800 | SGMR | 4 | 1742.2 | 1743.8 | 3.3 | 88.4 | 26.5 | | |
| | 8800 | PALE | 4 | 1742.3 | 1743.8 | 12.2 | 82.0 | 24.0 | | |
| | 2800 | OTTA | 3 | 1742 | 1743.3 | 3 | 23.0 | 11.5 | | |
| | 2695 | BOUL | 8 | 1742 . | 1744 | 18.5 | 32.0 | 8.0 | | |
| | 10700 | PENN | 29 | 1745.2 | 1745.2 | 13.9 | 8.2 | 4.1 | | |
| | 8800 | SGMR | 29 | 1745.5 | 1745.5 | 12.2 | 7.8 | 3.1 | | |
| | 4995 | SGMR | 29 | 1745.5 | 1745.5 | 17.1 | 13.9 | 5.6 | | |
| | 2800 | OTTA | 29 | 1745 | 1745 | 15 | 5.8 | 2.7 | | |
| | 2695 | SGMR | 29 | 1745.5 | 1745.5 | 21.2 | 5.7 | 2.3 | | |
| | 7000 | SAOP | 29 | 1747.1 | | 9.9 | | | | |
| | 2800 | OTTA | 26 | 1805 | 1810 | 5 | -1.6 | -0.5 | | |
| | 2800 | OTTA | 21 | 1815 | 1840 | 155 | 2.2 | 1.3 | | |
| | 4995 | SGMR | 1 | 1854.9 | 1855.3 | 1.5 | 8.2 | 2.5 | | |
| | 2700 | PENN | 1 | 1854.5 | 1855.5 | 4 | 3.7 | 1.0 | | |
| | 2695 | SGMR | 1 | 1854.4 | 1855.8 | 3.9 | 3.5 | 1.1 | | |
| | 2800 | OTTA | 1 | 1855 | 1855.2 | 1 | 3.2 | 1.6 | | |
| | 2695 | BOUL | 3 | 1855.5 | 1856 | 2 | 4.0 | 1.0 | | |
| | 10700 | PENN | 45 | 1916.9 | 1918.6 | 8.4 | 55.7 | 7.6 | | |
| | 15400 | SGMR | 4 | 1917.8 | 1918.5 | 2.8 | 48.3 | 14.5 | | |
| | 8800 | SGMR | 4 | 1917.6 | 1918.6 | 5.7 | 47.8 | 14.4 | | |
| | 8800 | PALE | 45 | 1917.6 | 1917.8 | 3.6 | 34.0 | 12.0 | | |
| | 8800 | PALE | 45 | | 1918.5 | | 40.0 | | | |
| | 4995 | SGMR | 4 | 1917.1 | 1917.9 | 5.1 | 20.5 | 6.2 | | |
| | 4995 | BOUL | 3 | 1917 | 1917.5 | 2.5 | 19.0 | 5.0 | | |
| | 18 | BOUL | 41 | 2125 | 2140 | 16 | | | 3 | |
| | 18 | BOUL | 6 | 2144 | 2146 | 2 | | | 1 | |
| | 18 | BOUL | 6 | 2153 | 2159 | 9 | | | 3 | |
| | 207 | VORO | 44 | 2200 | 2245 | 105 | | 16.0 | | |
| | 18 | BOUL | 6 | 2202 | 2211 | 9 | | | 3 | |
| | 3750 | TYKW | 5 | 2310 | 2314 | 7 | 2.0 | 1.0 | | |
| | 3750 | TYKW | 5 | 2329 | 2340 | 30 | 3.0 | 1.0 | | |
| 9 | 8800 | PALE | 8 | 0009 | 0011 | 3.2 | 51.0 | 8.0 | | |
| | 3750 | TYKW | 5 | 0015 | 0017.6 | 9 | 10.0 | 2.0 | | |
| | 9400 | TYKW | 5 | 0017 | 0017.6 | 1.5 | 3.0 | 1.0 | | |
| | 9400 | TYKW | 5 | 0039 | 0039.4 | 1 | 6.0 | 2.0 | | |
| | 9400 | TYKW | 45 | 0046.5 | 0049.7 | 15 | 14.0 | 4.0 | | |
| | 2000 | TYKW | 5 | 0055 | 0125 | 85 | 3.0 | 1.5 | | |
| | 9400 | TYKW | 5 | 0108 | 0125 | 35 | 6.0 | 3.0 | | |
| | 3750 | TYKW | 5 | 0108 | 0126.5 | 35 | 3.0 | 1.5 | | |
| | 9400 | TYKW | 5 | 0154 | 0154.8 | 25 | 12.0 | 3.0 | | |
| | 8800 | MANI | 4 | 0154.5 | 0154.8 | 4.4 | 10.4 | 2.1 | | |
| | 4995 | MANI | 2 | 0154.5 | 0154.8 | 3.9 | 8.6 | 1.9 | | |
| | 3750 | TYKW | 5 | 0154 | 0154.8 | 20 | 6.0 | 1.5 | | |
| | 2695 | MANI | 2 | 0154 | 0155.3 | 4.5 | 2.9 | 1.0 | | |
| | 9400 | TYKW | 5 | 0240 | 0250 | 30 | 3.0 | 1.0 | | |
| | 3750 | TYKW | 45 | 0240 | 0250.3 | 30 | 8.0 | 2.0 | | |
| | 2000 | TYKW | 5 | 0240 | 0247.5 | 30 | 2.5 | 1.0 | | |
| | 8800 | MANI | 3 | 0345.2 | 0349.1 | 8.8 | 10.4 | 2.1 | | |
| | 4995 | MANI | 3 | 0345.4 | 0349.1 | 8.6 | 18.2 | 4.8 | | |
| | 9400 | TYKW | 5 | 0348 | 0348.9 | 16 | 5.0 | 2.0 | | |
| | 3750 | TYKW | 5 | 0348 | 0348.9 | 16 | 6.0 | 2.0 | | |
| | 2695 | MANI | 1 | 0348 | 0349.1 | 6.8 | 1.9 | 1.0 | | |
| | 2000 | TYKW | 5 | 0348 | 0415 | 45 | 2.0 | 1.0 | | |
| | 3750 | TYKW | 5 | 0409 | 0432 | 50 | 6.0 | 2.0 | | |
| | 9400 | TYKW | 5 | 0438.5 | 0440.4 | 20 | 20.0 | 3.0 | | |
| | 8800 | MANI | 3 | 0439.7 | 0440.4 | 2.8 | 14.5 | 8.3 | | |
| | 4995 | MANI | 4 | 0439.5 | 0440.5 | 5.5 | 10.6 | 4.8 | | |
| | 3750 | TYKW | 5 | 0439 | 0440.1 | 3 | 30.0 | 5.0 | | |
| | 2695 | MANI | 2 | 0439.6 | 0440.4 | 4.9 | 9.5 | 2.9 | | |
| | 2000 | TYKW | 5 | 0439 | 0440.3 | 8 | 7.0 | 1.0 | | |
| | 100 | GORK | 44 | 0459 E | | 256 D | | 5.0 | | |
| | 260 | ONDR | 41 | 0706 | 1028 | 471 | 35.0 | | | |
| | 245 | SGMR | 43 | 1324.5 | 2110.2 | 522.5D | 111.0 | | | |
| | 200 | HIRA | 44 | 2045 E | 2350 | 675 D | 60.0 | 40.0 | | |
| | 207 | VORO | 44 | 2200 | | 240 | | 35.0 | | |
| | 9400 | TYKW | 5 | 0540 | 0545 | 50 | 7.0 | 3.0 | | |
| | 4995 | MANI | 1 | 0540.7 | 0543.6 | 8 | 4.8 | 1.9 | | |
| | 2695 | MANI | 1 | 0540.7 | 0542.6 | 8 | 4.7 | 1.9 | | |
| | 1415 | MANI | 4 | 0540.7 | 0542.6 | 6.9 | 24.4 | 7.1 | | |
| | 3750 | TYKW | 5 | 0541 | 0543 | 45 | 5.0 | 3.0 | | |
| | 3100 | CRIM | 24 | 0541 | 0543 | | 7.0 | 2.0 | | |
| | 2000 | TYKW | 45 | 0541 | 0541.8 | 8 | 8.0 | 4.0 | | |
| | 1000 | TYKW | 45 | 0541 | 0542.9 | 10 | 28.0 | 4.0 | | |
| | 950 | GORK | 46 | 0541.5 | 0542.3 | 4.1 | 24.0 | | | |
| | 950 | GORK | | 0541.5 | 0543.3 | | 30.0D | | | |
| | 650 | GORK | 45 | 0541.2 | 0542 | 3.9 | 16.0 | | | |
| | 606 | MANI | 4 | 0541.1 | 0542.8 | 5.6 | 15.8 | 5.1 | | |
| | 650 | GORK | | 0543.4 | | | 32.0 | | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2000 | TYKW | 29 | 0549 | | 50 | 2.0 | 1.0 | | |
| | 1000 | TYKW | 29 | 0551 | | 50 | 1.5 | 0.5U | | |
| | 6100 | KISV | 4 | 0602 | 0603 | 4 | 4.0 | | | |
| | 9100 | GORK | 21 | 1012.7 | 1022 | 20.2 | 4.6 | | | |
| | 8800 | ATHN | 3 | 1014.7 | 1015.9 | 2.2 | 10.6 | 3.2 | | |
| | 6100 | KISV | 4 | 1015 | 1016 | 2 | 19.0 | | | |
| | 9100 | GORK | 1 | 1018 | 1018.5 | 2 | 7.5 | 3.7 | | |
| | 6100 | KISV | 4 | 1023.4 | 1024.8 | 4 | 12.0 | | | |
| | 9100 | GORK | 1 | 1024 | 1024.5 | 2 | 10.5 | 5.2 | | |
| | 6100 | KISV | 1 | 1156 | 1157 | 2 | 4.0 | | | |
| | 2800 | OTTA | 8 | 1210.2 | 1210.3 | .3 | 5.2 | | | |
| | 8800 | ATHN | 3 | 1432.3 | 1432.8 | 17.8 | 59.4 | 17.8 | | |
| | 2800 | OTTA | 240 | 1440 | 1520 | 40 | 3.2 | 1.6 | | |
| | 2800 | OTTA | 24P | 1520 | | 500 D | 3.2 | | | |
| | 2800 | OTTA | 27A | 1645 | | 240 | 2.2 | 2.0 | | |
| | 2800 | OTTA | 24 | 1645 | 1705 | 20 | 2.2 | 1.1 | | |
| | 2700 | PENN | 1 | 1648.3 | 1648.7 | 1.4 | 1.5 | 0.5 | | |
| | 2695 | PENT | 1 | 1648 | 1648.7 | 1.5 | 2.4 | 0.8 | | |
| | 2800 | OTTA | 24P | 1705 | 2010 | 185 | 2.2 | | | |
| | 8800 | SGMR | 20 | 1710.4 | 1711.9 | 10 | 8.0 | 4.8 | | |
| | 2800 | OTTA | 22 | 1710 | 1716 | 30 | 3.2 | 1.5 | | |
| | 4995 | SGMR | 22 | 1711.4 | 1711.9 | 20.3 | 7.0 | 4.2 | | |
| | 18 | MCMA | 6 | 1711 | 1713 | 3 | | | 2 | |
| | 2695 | SGMR | 20 | 1714.3 | 1715.8 | 20.8 | 3.8 | 2.3 | | |
| | 2695 | BOUL | 3 | 1716 | 1717.5 | 3 | 4.0 | 1.0 | | |
| | 2800 | OTTA | 26 | 2010 | 2045 | 35 | -2.2 | -1.1 | | |
| | 2800 | OTTA | 1 | 2127 | 2129 | 5 | 1.2 | 0.6 | | |
| 10 | 3750 | TYKW | 45 | 0020 | 0053 | 60 | 4.0 | 2.0 | | |
| | 1000 | TYKW | 5 | 0219 | 0221 | 15 | 2.0 | 1.0 | | |
| | 3100 | CRIM | 20 | 0518 | 0551 | 132 | 9.0 | 3.0 | | |
| | 3750 | TYKW | 45 | 0530 | 0630 | 100 | 8.0 | 4.0 | | |
| | 2000 | TYKW | 45 | 0535 | 0623 | 95 | 5.0 | 2.0 | | |
| | 9400 | TYKW | 5 | 0540 | 0630 | 90 | 7.0 | 3.0U | | |
| | 8800 | ATHN | 4 | 0621.4 | 0624.6 | 5.1 | 12.5 | 3.8 | | |
| | 1000 | TYKW | 45 | 0621 | 0622.8 | 7 | 10.0 | 2.0 | | |
| | 500 | HIRA | 45 | 0626 | 0629.8 | 6 | 70.0 | 20.0 | | |
| | 29 | UPIC | 45 | 0637.5 | 0639 | 4.5 | | | | |
| | 113 | POTS | 40 | 0657.6 | 0658.6 | 2.2 | 850.0 | 40.0 | | |
| | 221 | ABST | 44 | 0700 | 0821.8 | 240 | 6.0 | | | |
| | 260 | ONDR | 41 | 0753 | 0822 | 202 | 85.0 | | | |
| | 188 | KIEV | 44 | 1035 | | 210 D | 232.0 | 45.0 | | |
| | 29 | UPIC | 45 | 0712.5 | 0715 | 3.5 | | | | |
| | 6100 | KISV | 20 | 0714 | 0718.4 | 11 | 3.0 | | | |
| | 3100 | CRIM | 24 | 0750 | 1232 | | 6.0 | 2.0 | | |
| | 6100 | KISV | 1 | 0821 | 0822.5 | 4 | 7.0 | | | |
| | 808 | ONDR | 45 | 0821.5 | 0822 | 6.5 | 105.0 | | | |
| | 536 | ONDR | 45 | 0821.5 | 0822.5 | 3 | 35.0 | | | |
| | 234 | POTS | 45 | 0821.4 | 0821.9 | .4 | 120.0 | 20.0 | | |
| | 221 | ABST | 6 | 0821.2 | 0821.8 | .8 | 42.0 | | | |
| | 6100 | KISV | 1 | 0911 | 0913.4 | 5 | 5.0 | | | |
| | 3100 | CRIM | 1 | 0921 | 0929 | 3 | 4.0 | 1.0 | | |
| | 6100 | KISV | 20 | 0955 | 0957.5 | 10 | 3.0 | | | |
| | 221 | ABST | | 1008.8 | 1009.5 | 1.5 | 42.0 | 14.0 | | |
| | 930 | BORD | 45 | 1016 | 1017.2 | 2 | 9.0 | 2.0 | | |
| | 6100 | KISV | 1 | 1019.3 | 1020.3 | 3 | 3.0 | | | |
| | 3100 | CRIM | 24 | 1029 | 1102 | 153 | 8.0 | 3.0 | | |
| | 6100 | KISV | 1 | 1031.5 | 1034 | 9 | 8.0 | | | |
| | 8800 | ATHN | 20 | 1032.7 | 1035.7 | 13.5 | 3.3 | 2.0 | | |
| | 1415 | ATHN | 2 | 1034.2 | 1039.7 | 8.6 | 4.4 | 1.3 | | |
| | 3000 | BERL | 22 | 1035 | 1103 | 145 | 6.5 | | | |
| | 2695 | ATHN | 20 | 1035.3 | 1037.2 | 10.7 | 6.6 | 4.0 | | |
| | 930 | BORD | 45 | 1037 | 1037.7 | 3 | 17.0 | 2.0 | | |
| | 1415 | ATHN | 20 | 1053.2 | 1100.6 | 29 | 2.9 | 1.8 | | |
| | 6100 | KISV | 20 | 1054 | 1103 | 19 | 5.0 | | | |
| | 9500 | BERL | 20 | 1055 | 1102.5 | 133 | 5.1 | | | |
| | 2695 | ATHN | 20 | 1055.3 | 1100.6 | 15 | 8.8 | 5.3 | | |
| | 8800 | ATHN | 41 | 1057.2 | 1105.2 | 16.9 | 15.0 | 4.5 | | |
| | 808 | ONDR | 45 | 1059 | 1100.5 | 2.5 | 95.0 | | | |
| | 6100 | KISV | 20 | 1125.5 | 1127.4 | 4 | 3.0 | | | |
| | 6100 | KISV | 20 | 1134 | 1137.3 | 12 | 3.0 | | | |
| | 410 | SGMR | 6 | 1231.7 | 1232 | .8 | 98.7 | 29.6 | | |
| | 1415 | SGMR | 2 | 1232 | 1232.3 | .8 | 2.4 | 1.0 | | |
| | 606 | SGMR | 4 | 1232.2 | 1232.3 | .6 | 28.9 | 8.7 | | |
| | 7000 | SAOP | 20 | 1404.7 | | 4 | 10.8 | | | |
| | 245 | SGMR | 43 | 1445 | 1644.7 | 441 D | 110.0 | | | |
| | 2800 | OTTA | 23 | 1508 | 1845 | 380 | 8.8 | 4.4 | | |
| | 8800 | SGMR | 22 | 1509.2 | 1513.6 | 55.4 | 15.1 | 7.6 | | |
| | 4995 | SGMR | 22 | 1509.1 | 1515 | 56.1 | 9.4 | 4.7 | | |
| | 2695 | SGMR | 22 | 1509.4 | 1515.2 | 53.1 | 6.8 | 3.4 | | |
| | 930 | BORD | 45 | 1509 | 1509.8 | 2 | 105.0 | 2.0 | | |
| | 2800 | OTTA | 8 | 1510 | 1510 | | 7.0 | | | |
| | 7000 | SAOP | 22 | 1512.8 | | 4.1 | 11.8 | | | |
| | 2800 | OTTA | 1 | 1513 | 1515 | 4 | 5.6 | 2.8 | | |
| | 2695 | BOUL | 45 | 1513.5 | 1516 | 4 | 7.0 | 2.0 | | |
| | 1415 | SGMR | 2 | 1513.3 | 1513.7 | 2.8 | 1.6 | .6 | | |
| | 2800 | OTTA | 1 | 1525 | 1528 | 6 | 2.8 | 1.4 | | |
| | 2695 | BOUL | 21 | 1527.5 | 1529 | 7.5 | 5.0 | 2.0 | | |
| | 18 | MCMA | 6 | 1708 | 1711 | 4 | | | 2 | |
| | 7000 | SAOP | 4 | 1806.7 | | 3.4 | 22.8 | 11.4 | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 4995 | BOUL | 3 | 1806.5 | 1809.5 | 6 | 14.0 | 4.0 | | |
| | 2695 | BOUL | 45 | 1807.5 | 1810 | 7.5 | 19.0 | 5.0 | | |
| | 15400 | SGMR | 1 | 1808.3 | 1809.5 | 4.9 | 8.0 | 2.4 | | |
| | 8800 | SGMR | 4 | 1808 | 1810.1 | 6.3 | 20.8 | 6.2 | | |
| | 8800 | PALE | 3 | 1808.5 | 1809.5 | 3.3 | 12.0 | 3.6 | | |
| | 7000 | SAOP | 40 | 1808.3 | | 2.6 | | | | |
| | 4995 | SGMR | 4 | 1808.2 | 1810.1 | 7.3 | 16.4 | 4.9 | | |
| | 2800 | OTTA | 45 | 1808 | 1809.6 | 8 | 18.6 | 4.6 | | |
| | 2695 | SGMR | 4 | 1808 | 1809.7 | 7.1 | 18.6 | 5.6 | | |
| | 1420 | BOUL | 45 | 1808 | 1809 | 6 | 10.0 | 3.0 | | |
| | 1415 | SGMR | 4 | 1808 | 1808.9 | 7.5 | 14.3 | 4.3 | | |
| | 1415 | PALE | 3 | 1808.3 | 1808.8 | 3 | 12.0 | 3.6 | | |
| | 7000 | SAOP | 25 | 1821.4 | | 81 | | | | |
| | 1415 | SGMR | 46 | 1825.5 | 1830.5 | 21.5 | 16.0 | 5.0 | | |
| | 1415 | SGMR | 46 | | 1833.5 | | 9.5 | | | |
| | 8800 | SGMR | 46 | 1826.6 | 1833.3 | 13.9 | 105.0 | 32.0 | | |
| | 8800 | SGMR | 46 | | 1837 | | 75.0 | | | |
| | 4995 | SGMR | 46 | 1826.8 | 1833.4 | 14.8 | 95.0 | 29.0 | | |
| | 4995 | SGMR | 46 | | 1836.9 | | 77.0 | | | |
| | 2695 | SGMR | 46 | 1826.6 | 1833.6 | 19.9 | 35.0 | 11.0 | | |
| | 2695 | SGMR | 46 | | 1837.1 | | 35.0 | | | |
| | 1420 | BOUL | 45 | 1826 | 1830.5 | 20 | 11.0 | 3.0 | | |
| | 15400 | SGMR | 46 | 1827.7 | 1833.3 | 12.2 | 50.0 | 15.0 | | |
| | 15400 | SGMR | 46 | | 1837.6 | | 41.0 | | | |
| | 2800 | OTTA | 46 | 1827 | 1833.5 | 18 | 35.0 | 8.8 | | |
| | 2695 | BOUL | 45 | 1828 | 1838 U | 17.5 | 22.0U | 6.0U | | |
| | 8800 | PALE | 22 | 1829.3 | 1833.3 | 16.5 | 77.0 | 46.0 | | |
| | 7000 | SAOP | 46 | 1829.2 | 1833.2 | 23.8 | 124.6 | 31.4 | | |
| | 4995 | BOUL | 45 | 1829 | 1833 | 15 | 82.0 | 24.0 | | |
| | 1415 | PALE | 22 | 1829.3 | 1830.6 | 14.9 | 14.0 | 8.5 | | |
| | 606 | SGMR | 4 | 1829.2 | 1830.5 | 13.3 | 11.0 | 3.0 | | |
| | 410 | SGMR | 6 | 1829.1 | 1830.5 | 13.2 | 77.0 | 23.0 | | |
| | 10700 | PENN | 45 | 1830 E | 1833.4 | | 80.4 | | | |
| | 2700 | PENN | 45 | 1832 E | 1833.6 | | 30.8 | | | |
| | 15400 | SGMR | 29 | 1839.9 | 1839.9 | 20.1 | 13.9 | 5.6 | | |
| | 8800 | SGMR | 29 | 1840.5 | 1840.5 | 19.5 | 18.2 | 7.3 | | |
| | 4995 | SGMR | 29 | 1841.6 | 1841.6 | 17.4 | 13.1 | 5.2 | | |
| | 7000 | SAOP | 29 | 1852.6 | | 7.3 | | | | |
| | 10700 | PENN | 1 | 2117.9 | 2118 | .4 | 8.5 | 6.0 | | |
| | 2700 | PENN | 1 | 2117.9 | 2118.1 | .6 | 3.4 | 1.0 | | |
| | 10700 | PENN | 8 | 2120.9 | 2120.9 | .1 | 16.9 | | | |
| | 207 | VORO | 44 | 2200 | 0100 | 240 | | 48.0 | | |
| | 2695 | PENT | 20 | 2240 | 2332 | 80 D | 5.8 | | | |
| | 9400 | TYKW | 45 | 2310 | 2329 | 70 | 13.0 | 4.0 | | |
| | 3750 | TYKW | 45 | 2310 | 2333.3 | 70 | 8.0 | 2.0 | | |
| | 2000 | TYKW | 45 | 2320 | 2401.2 | 60 | 5.0 | 1.0 | | |
| | 1000 | TYKW | 45 | 2358 | 2358.5 | 5 | 6.0 | 0.7 | | |
| 11 | 9400 | TYKW | 5 | 0057 | 0058.1 | 3 | 3.0 | 1.0 | | |
| | 3750 | TYKW | 5 | 0057 | 0058.1 | 3 | 3.0 | 1.0 | | |
| | 2000 | TYKW | 5 | 0057.5 | 0058.1 | 1.5 | 2.0 | 0.7 | | |
| | 1000 | TYKW | 5 | 0057.5 | 0058 | 1 | 10.0 | 3.0 | | |
| | 9400 | TYKW | 5 | 0112 | 0112.8 | 3 | 8.0 | 3.0 | | |
| | 2000 | TYKW | 28 | 0129 | 0135.1 | 19 | 6.0 | 2.0 | | |
| | 3750 | TYKW | 28 | 0131 | 0135 | 12 | 4.0 | 3.0 | | |
| | 9400 | TYKW | 28 | 0132 | 0137 | 11 | 5.0 | 3.0 | | |
| | 1415 | MANI | 46 | 0132.5U | 0151.6 | 25.3U | 32.3U | 12.2U | | WX |
| | 1000 | TYKW | 28 | 0132 | 0135.2 | 11 | 4.0 | 1.0 | | |
| | 606 | MANI | 22 | 0135 | 0144.7 | 22.5 | 6.8 | 2.6 | | |
| | 4995 | MANI | 46 | 0137.7U | 0151.5 | 25.8U | 57.0U | 19.4U | | WX |
| | 2695 | MANI | 46 | 0138.5U | 0151.5 | 20.2U | 68.0U | 23.8U | | WX |
| | 2000 | TYKW | 45 | 0142 | 0151.5 | 17 | 60.0 | 20.0 | | |
| | 9400 | TYKW | 45 | 0143 | 0151.3 | 16 | 49.0 | 22.0 | | |
| | 8800 | MANI | 46 | 0143.6U | 0153.8 | 22.1U | 55.0U | 19.1U | | WX |
| | 8800 | PALE | 4 | 0143.4 | 0151.4 | 10.8 | 55.0 | 16.0 | | |
| | 3750 | TYKW | 45 | 0143 | 0151.3 | 15 | 68.0 | 30.0 | | |
| | 2930 | VORO | 46 | 0143 | 0151.5 | 14 | 90.0 | | | |
| | 1415 | PALE | 4 | 0143.5 | 0151.6 | 11.7 | 28.0 | 8.4 | | |
| | 1000 | TYKW | 45 | 0143 | 0151.1 | 15 | 16.0 | 6.0 | | |
| | 3750 | TYKW | 29 | 0158 | | 25 | 7.0 | 4.0 | | |
| | 9400 | TYKW | 29 | 0159 | | 21 | 8.0 | 3.0 | | |
| | 2000 | TYKW | 29 | 0159 | | 30 | 2.0 | 1.0 | | |
| | 3750 | TYKW | 28 | 0230 | 0252 | 54 | 5.0 | 3.0 | | |
| | 2000 | TYKW | 5 | 0240 | 0240.3 | 2 | 2.0 | 0.6 | | |
| | 1000 | TYKW | 5 | 0240 | 0240.4 | 2 | 2.0 | 0.7 | | |
| | 1000 | TYKW | 41 | 0259 | 0300.7 | 2 | 9.0 | 1.5 | | |
| | 9400 | TYKW | 28 | 0303 | 0320 | 24 | 5.0 | 3.0 | | |
| | 8800 | MANI | 47 | 0323 | 0329.4 | 44.9 | 1750.0 | 255.0 | | |
| | 4995 | MANI | 47 | 0323.2 | 0329.4 | 45.7 | 760.0 | 290.0 | | |
| | 2695 | MANI | 46 | 0323.8 | 0329.3 | 43.9 | 340.0 | 150.0 | | |
| | 1000 | TYKW | 45 | 0323 | 0329 | 30 | 370.0 | 55.0 | | |
| | 1000 | TYKW | | 0323 | 0339.8 | | 140.0 | | | |
| | 3750 | TYKW | 45 | 0324 | 0328.2 | 23 | 465.0 | 100.0 | | |
| | 3750 | TYKW | | 0324 | 0338.6 | | 300.0 | | | |
| | 2000 | TYKW | 45 | 0324 | 0329.3 | 23 | 415.0 | 70.0 | | |
| | 2000 | TYKW | | 0324 | 0339.4 | | 230.0 | | | |
| | 606 | MANI | 47 | 0324.3 | 0329.2 | 32.7 | 570.0 | 103.0 | | |
| | 2930 | VORO | 47 | 0325 | 0329 | 50 | 570.0 | | | |
| | 1415 | MANI | 46 | 0325.3 | 0329.4 | 31.7 | 460.0 | 139.0 | | |
| | 1415 | PALE | 46 | 0325.7 | 0328.8 | 22.5 | 450.0 | 90.0 | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$ PEAK | FLUX DENSITY MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 1415 | PALE | 46 | | 0339.6 | | 160.0 | | | |
| | 200 | HIRA | 45 | 0326 | | 25 | | 110.0D | | |
| | 200 | HIRA | | 0326 | 0331.3U | | 350.0D | | | |
| | 9400 | TYKW | 47 | 0327 | 0329.3 | 20 | 1600.0 | 280.0 | | |
| | 9400 | TYKW | | 0327 | 0338.1 | | 560.0 | | | |
| | 8800 | PALE | 47 | 0327 | 0329.2 | 17.3 | 1800.0 | 360.0 | | |
| | 8800 | PALE | 47 | | 0338.2 | | 540.0 | | | |
| | 500 | HIRA | 45 | 0327.6 | 0329. | 20 | 350.0 | 100.0 | | |
| | 100 | HIRA | 45 | 0327.5 | | 19 | | 300.0D | | |
| | 100 | HIRA | | 0327.5 | 0329.3U | | 1000.0D | | | |
| | 100 | HIRA | | 0327.5 | 0334.6U | | 1000.0D | | | |
| | 100 | HIRA | 24 | 0346 | 0446.5 | 254 D | 200.0 | 80.0 | | |
| | 9400 | TYKW | 29 | 0347 | | 230 D | 35.0 | 8.0U | | |
| | 3750 | TYKW | 29 | 0347 | | 230 D | 24.0 | 10.0U | | |
| | 2000 | TYKW | 29 | 0347 | | 220 D | 13.0 | 10.0U | | |
| | 1000 | TYKW | 29 | 0353 | | 220 D | 5.0 | 3.0U | | |
| | 9400 | TYKW | 45 | 0442 | 0446.3 | 6 | 7.0 | 2.0 | | |
| | 8800 | ATHN | 4 | 0459.8 | 0501 | 3.3 | 42.9 | 12.9 | | |
| | 4995 | ATHN | 4 | 0459.8 | 0501 | 3.3 | 39.0 | 11.7 | | |
| | 2695 | ATHN | 4 | 0459.8 | 0501 | 3.3 | 28.1 | 8.4 | | |
| | 1415 | ATHN | 4 | 0459.8 | 0501 | 2.9 | 14.4 | 4.3 | | |
| | 9400 | TYKW | 5 | 0500.5 | 0501 | 3.5 | 33.0 | 10.0 | | |
| | 8800 | MANI | 3 | 0500.8U | 0501.3 | 4 U | 19.2U | 5.8U | | WX |
| | 4995 | MANI | 3 | 0500.8U | 0501.3 | 3.2U | 17.5U | 3.9U | | WX |
| | 3750 | TYKW | 5 | 0500.5 | 0501.1 | 3.5 | 36.0 | 11.0 | | |
| | 2695 | MANI | 3 | 0500.8U | 0501.3 | 3 U | 14.1U | 4.7U | | WX |
| | 2000 | TYKW | 5 | 0500.5 | 0501.1 | 3.5 | 14.0 | 4.0 | | |
| | 1415 | MANI | 1 | 0500.8U | 0501.3 | 3 U | 5.9U | 2.4U | | WX |
| | 1000 | TYKW | 5 | 0500.5 | 0501.1 | 3.5 | 4.0 | 1.5 | | |
| | 606 | MANI | 1 | 0500.8 | 0501.2 | 1 | 5.8 | 2.7 | | |
| | 200 | GORK | 44 | 0503 E | | 492 D | | 5.0 | | |
| | 100 | GORK | 44 | 0503. E | | 492 D | | 60.0 | | |
| | 260 | ONDR | 44 | 0647 | 0800 | 498 | 230.0 | | | |
| | 188 | KIEV | 42 | 0700 E | | 420 D | 128.0 | 62.0 | | |
| | 9400 | TYKW | 5 | 0518 | 0518.6 | 2 | 6.0 | 2.0 | | |
| | 9400 | TYKW | 5 | 0520 | 0529.5 | 20 | 9.0 | 2.0 | | |
| | 3750 | TYKW | 5 | 0520 | 0529.8 | 35 | 5.0 | 2.0 | | |
| | 2000 | TYKW | 5 | 0524 | 0525.3 | 15 | 1.5 | 0.7 | | |
| | 650 | GORK | 40 | 0524.2 | 0524.7 | .8 | 3.9 | | | |
| | 200 | GORK | 6 | 0529.6 | 0530.2 | 3.1 | 150.0 | 70.0 | | |
| | 200 | HIRA | 45 | 0529.2 | 0529.8 | 1.2 | 170.0 | 60.0 | | |
| | 3750 | TYKW | 5 | 0548 | 0549 | 3 | 2.0 | 1.0U | | |
| | 9400 | TYKW | 5 | 0549 | 0549.6 | 2 | 5.0 | 2.0 | | |
| | 1000 | TYKW | 5 | 0613.6 | 0613.7 | .3 | 21.0 | 7.0U | | |
| | 6100 | KISV | 46 | 0614.5 | 0616.8 | 7 | 17.0 | | | |
| | 606 | MANI | 4 | 0615.7 | 0616.7 | 3.7 | 29.6 | 8.0 | | |
| | 200 | HIRA | 45 | 0615.5 | 0616 | 3 | 350.0 | 70.0 | | |
| | 9400 | TYKW | 5 | 0616.6E | 0617 | 2.4D | 9.0 | 3.0U | | |
| | 8800 | ATHN | 2 | 0616.2 | 0616.6 | 2.6 | 9.9 | 3.0 | | |
| | 4995 | MANI | 2 | 0616.3U | 0617.3 | 2.7U | 3.9U | 1.0U | | WX |
| | 4995 | ATHN | 4 | 0616 | 0616.9 | 2.8 | 12.4 | 3.7 | | |
| | 3750 | TYKW | 5 | 0616 | 0617 | 3 | 9.0 | 3.0 | | |
| | 3100 | CRIM | 1 | 0616 | 0617 | 4 | 5.0 | 2.0 | | |
| | 2695 | MANI | 2 | 0616.3U | 0617.2 | 2.6U | 2.8U | .9U | | WX |
| | 2695 | ATHN | 2 | 0616.3 | 0617 | 3 | 4.7 | 1.4 | | |
| | 1415 | MANI | 2 | 0616.3U | 0616.7 | 2.6U | 1.5U | .5U | | WX |
| | 1415 | ATHN | 2 | 0616 | 0616.6 | 2.3 | 4.1 | 1.2 | | |
| | 1000 | TYKW | 45 | 0616 | 0617.9 | 3 | 8.0 | 2.0 | | |
| | 950 | GORK | 46 | 0616.6 | 0617.2 | 3.7 | 6.9 | | | |
| | 950 | GORK | | 0616.6 | 0618.5 | | 11.7 | | | |
| | 650 | GORK | 4 | 0616.5 | 0617.3 | 3.3 | 29.0 | 11.6 | | |
| | 500 | HIRA | 45 | 0616 | 0616.7 | 3 | 20.0 | 10.0 | | |
| | 200 | GORK | 41 | 0616.1 | 0617.5 | 2.9 | 120.0 | | | |
| | 200 | GORK | | 0616.1 | 0618.6 | | 120.0 | | | |
| | 3750 | TYKW | 5 | 0705 | 0706.7 | 3 | 6.0 | 2.0 | | |
| | 950 | GORK | 3 | 0706.4 | 0706.7 | .7 | 9.2 | 4.6 | | |
| | 650 | GORK | 3 | 0706.3 | 0706.6 | .8 | 32.0 | 16.0 | | |
| | 550 | KIEV | 6 | 0706.5 | 0706.7 | .6 | 62.0 | | | |
| | 100 | GORK | 6 | 0706.3 | 0706.6 | .7 | 50.0 | | | |
| | 536 | ONDR | 45 | 0707 | 0707 | 1.5 | 40.0 | | | |
| | 950 | GORK | 1 | 0738.6 | 0738.7 | .4 | 3.6 | 1.8 | | |
| | 650 | GORK | 4 | 0739 | 0739.4 | .8 | 10.7 | 3.0 | | |
| | 550 | KIEV | 6 | 0739 | 0739.5 | 1 | 55.0 | | | |
| | 536 | ONDR | 45 | 0739 | 0739.5 | 2 | 55.0 | | | |
| | 234 | POTS | 5 | 0747.8 | 0747.9 | .1 | 200.0 | 70.0 | | |
| | 4995 | MANI | 4 | 0757.6 | 0759.7 | 9.1 | 15.5 | 4.9 | | |
| | 650 | GORK | 3 | 0757.9 | 0758.1 | .4 | 21.0 | 6.0 | | |
| | 9500 | BERL | 4 | 0758.4 | 0759.4 | 2.1 | 12.0 | 5.4 | | |
| | 9240 | ARCE | 2 | 0758.9 | 0759.5 | 2.6 | | | | |
| | 9100 | GORK | 2 | 0758.5 | 0759.2 | 2.5 | 18.5 | 9.3 | | |
| | 8800 | MANI | 4 | 0758.6 | 0800.1 | 8.1 | 19.2 | 5.8 | | |
| | 8800 | ATHN | 4 | 0758.9 | 0759.3 | 2.7 | 23.1 | 6.9 | | |
| | 4995 | ATHN | 4 | 0758.8 | 0759.3 | 2.4 | 15.6 | 4.7 | | |
| | 3000 | BERL | 1 | 0758.8 | 0759.1 | 1.7 | 3.2 | 1.0 | | |
| | 1470 | BERL | 4 | 0758.7 | 0759.2 | 2.3 | 6.8 | 2.4 | | |
| | 1415 | MANI | 2 | 0758 | 0759.7 | 8.2 | 7.4 | 2.5 | | |
| | 1415 | ATHN | 4 | 0758.8 | 0759.4 | 3.2 | 14.4 | 4.3 | | |
| | 808 | ONDR | 45 | 0758.5 | 0800.5 | 3 | 230.0 | | | |
| | 650 | GORK | 46 | 0758.7 | 0759.5 | 5.6 | 240.0 | | | |
| | 650 | GORK | | 0758.7 | 0759.9 | | 400.0 | | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 650 | GORK | | 0758.7 | 0800.4 | | 470.0 | | | |
| | 606 | MANI | 4 | 0758 | 0800.5 | 5.6 | 415.0 | 78.0 | | |
| | 550 | KIEV | 41 | 0758.2 | U | 6.2 | 95.0D | | | |
| | 536 | ONDR | 45 | 0758.5 | 0800.5 | 5.5 | 120.0 | | | |
| | 510 | POTS | 45 | 0758.5 | 0800 | 4.5 | 77.0 | 15.0 | | |
| | 228 | HARS | 45 | 0758 | 0800 | 4 | 215.0D | 90.0 | | |
| | 6100 | KISV | 3 | 0759 | 0759.5 | 5 | 26.0 | | | |
| | 2695 | MANI | 2 | 0759.5 | 0800 | 7.5 | 2.8 | .9 | | |
| | 2695 | ATHN | 2 | 0759 | 0759.5 | 2 | 4.7 | 1.4 | | |
| | 950 | GORK | 46 | 0759.1 | 0759.2 | 2.7 | 88.0 | | | |
| | 950 | GORK | | 0759.1 | 0800 | | 225.0 | | | |
| | 930 | BORD | 45 | 0759 | 0800 | 3 | 164.0 | 50.0 | | |
| | 234 | POTS | 45 | 0759 | 0759.7 | 1.7 | 600.0 | 80.0 | | |
| | 221 | ABST | | 0759.2 | 0800.5 | 2.5 | 41.0 | 6.0 | | |
| | 207 | IZMI | 48 | 0759 | 0759.5 | 2 | 1600.0 | 300.0 | | |
| | 200 | GORK | 6 | 0759 | 0759.8 | 1.6 | 550.0 | | | |
| | 188 | KIEV | 6 | 0759.2 | U | 2.5 | 890.0D | | | |
| | 113 | POTS | 4 | 0759 | 0759.4 | 1.6 | 50000.0 | 5000.0 | | |
| | 29 | UPIC | 45 | 0759 | 0800.5 | 2 | | | | |
| | 6100 | KISV | 46 | 0829 | 0835 | 18 | 33.0 | | | |
| | 950 | GORK | 46 | 0829.9 | 0832 | 6.2 | 69.0 | | | |
| | 950 | GORK | | 0829.9 | 0833.2 | | 77.0 | | | |
| | 221 | ABST | | 0829.8 | 0832.8 | 7.5 | 22.0 | | | |
| | 9500 | BERL | 40 | 0830 | 0835 | 13 | 57.0 | 14.0 | | |
| | 9240 | ARCE | 21 | 0830.5 | 0921.8 | 143 | | | | |
| | 9100 | GORK | 45 | 0830 | 0831.5 | 15.5 | 6.8 | | | |
| | 9100 | GORK | | 0830 | 0834.5 | | 40.0D | | | |
| | 9100 | GORK | | 0830 | 0837 | | 39.0 | | | |
| | 8800 | ATHN | 45 | 0830.2 | 0835.3 | 16.2 | 77.6 | 23.3 | | |
| | 8800 | ATHN | 45 | | 0837.3 | | 54.5 | | | |
| | 4995 | ATHN | 45 | 0830.2 | 0835 | 14.7 | 18.7 | 5.6 | | |
| | 4995 | ATHN | 45 | | 0837.3 | | 18.7 | | | |
| | 3100 | CRIM | 46 | 0830 | 0832 | 50 | 5.0 | | | |
| | 3100 | CRIM | | 0830 | 0834 | | 6.0 | 3.0 | | |
| | 3100 | CRIM | | 0830 | 0836 | | 5.0 | | | |
| | 3100 | CRIM | | 0830 | 0838 | | 5.0 | | | |
| | 3000 | BERL | 40 | 0830 | 0835.2 | 12 | 4.8 | 2.2 | | |
| | 2695 | ATHN | 45 | 0830.7 | 0835.2 | 8.5 | 4.7 | 1.4 | | |
| | 2695 | ATHN | 45 | | 0837.7 | | 4.7 | | | |
| | 1470 | BERL | 40 | 0830 | 0835.5 | 13 | 9.3 | 4.4 | | |
| | 1415 | ATHN | 45 | 0830 | 0835.4 | 15.7 | 14.4 | 4.3 | | |
| | 1415 | ATHN | 45 | | 0837.4 | | 14.4 | | | |
| | 930 | BORD | 45 | 0830 | 0833 | 9 | 80.0 | 6.0 | | |
| | 808 | ONDR | 45 | 0830 | 0832.5 | 9 | 190.0 | | | |
| | 650 | GORK | 46 | 0830.4 | 0831.2 | 8.5 | 93.0 | | | |
| | 650 | GORK | | 0830.4 | 0833.1 | | 485.0 | | | |
| | 550 | KIEV | 41 | 0830.7 | 0833.5 | 9.2 | 290.0D | | | |
| | 536 | ONDR | 45 | 0830 | 0833 | 9.5 | 200.0 | | | |
| | 510 | POTS | 40 | 0830.3 | 0832.9 | 8.5 | 140.0 | 3.0 | | |
| | 234 | POTS | 41 | 0830.7 | 0832.9 | 6.7 | 9000.0 | 200.0 | | |
| | 207 | IZMI | 41 | 0830 | 0831 | 7.5 | 1600.0 | | | |
| | 188 | KIEV | 41 | 0830.7 | 0833.4 | 7.7 | 560.0U | | | |
| | 113 | POTS | 40 | 0830.2 | 0831.8 | 7.3 | 70000.0 | 200.0 | | |
| | 100 | GORK | 6 | 0830 | 0832 | 1.5 | 2500.0 | | | |
| | 200 | GORK | 41 | 0831.7 | 0831.8 | 1.8 | 85.0D | | | |
| | 200 | GORK | | 0831.7 | 0833.5 | | 450.0 | | | |
| | 9240 | ARCE | 46 | 0835 | 0835.5 | 7.5 | | | | |
| | 9240 | ARCE | | 0835 | 0835.5 | 2 | | | | |
| | 9240 | ARCE | | 0837 | 0837.4 | 5.5 | | | | |
| | 100 | GORK | 6 | 0836.5 | 0837.6 | 1.4 | 200.0 | 100.0 | | |
| | 950 | GORK | 4 | 0837.3 | 0838.1 | 2.3 | 9.7 | 4.8 | | |
| | 200 | GORK | 6 | 0837 | 0837.5 | .9 | 100.0 | 50.0 | | |
| | 650 | GORK | 3 | 0856.1 | 0856.3 | .6 | 9.0 | | | |
| | 9100 | GORK | 1 | 0918.5 | 0921 | 3.7 | 4.1 | 2.6 | | |
| | 8800 | ATHN | 2 | 0919.4 | 0920.5 | 2.4 | 5.0 | 1.5 | | |
| | 4995 | ATHN | 2 | 0919 | 0920.6 | 2.7 | 3.1 | .9 | | |
| | 650 | GORK | 2 | 0947.1 | 0947.4 | 1.3 | 4.0 | 2.0 | | |
| | 650 | GORK | 1 | 0957.7 | 0957.8 | .5 | 2.0 | | | |
| | 9100 | GORK | 45 | 1006 | 1023.5 | 48 D | 58.0 | | | |
| | 9100 | GORK | | 1006 | 1029.2 | | 59.9 | | | |
| | 9500 | BERL | 40 | 1010 | 1023.5 | 35 | 54.0 | 23.0 | | |
| | 3000 | BERL | 46 | 1010 | 1029.3 | 35 | 57.0 | 16.0 | | |
| | 6100 | KISV | 46 | 1011 | 1023.5 | 52 | 83.0 | | | |
| | 3100 | CRIM | 46 | 1011 | 1024 | 33 | 50.0 | | | |
| | 3100 | CRIM | | 1011 | 1030 | | 60.0 | 20.0 | | |
| | 1470 | BERL | 40 | 1011 | 1028.5 | 23 | 16.0 | 4.8 | | |
| | 930 | BORD | 45 | 1012 | 1030 | 21 | 95.0 | 6.0 | | |
| | 650 | GORK | 40 | 1014 | 1018.1 | 6.2 | 3.4 | | | |
| | 536 | ONDR | 45 | 1014.5 | 1030 | 17 | 90.0 | | | |
| | 9240 | ARCE | 20 | 1017.1 | 1024 | 28 | | | | |
| | 9240 | ARCE | | 1017.1 | 1020.2 | 4.5 | | | | |
| | 9240 | ARCE | | 1021.6 | 1024 | 6.2 | | | | |
| | 9240 | ARCE | | 1027.8 | 1030 | 17.3 | | | | |
| | 1420 | ARCE | 20 | 1017 | 1028.5 | 31 U | | | | |
| | 1420 | ARCE | | 1017 | 1023.6 | 10 | | | | |
| | 1420 | ARCE | | 1027 | 1028.5 | 21 U | | | | |
| | 2695 | ATHN | 46 | 1021.7 | 1023.5 | 17.7 | 32.6 | 15.6 | | |
| | 2695 | ATHN | 46 | | 1028.3 | | 52.1 | | | |
| | 950 | GORK | 46 | 1021.7 | 1023.9 | 9.7 | 18.0 | | | |
| | 950 | GORK | | 1021.7 | 1030.2 | | 96.0 | | | |

# SOLAR RADIO EMISSION
## OUTSTANDING OCCURRENCES

### OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME | TIME OF MAXIMUM | DURATION | FLUX DENSITY $10^{22}$ Wm$^{-2}$ Hz$^{-1}$ | | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | UT | UT | MINUTES | PEAK | MEAN | | |
| 11 | 808 | ONDR | 45 | 1021 | 1030 | 10 | 210.0 | | | |
| | 650 | GORK | 4 | 1021.6 | 1023.8 | 4.1 | 10.0 | 4.0 | | |
| | 4995 | ATHN | 46 | 1022.4 | 1023.6 | 18.6 | 56.2 | 16.9 | | |
| | 4995 | ATHN | 46 | | 1028.3 | | 53.8 | | | |
| | 1415 | ATHN | 46 | 1022.4 | 1023.4 | 11.9 | 11.8 | 3.5 | | |
| | 1415 | ATHN | 46 | | 1028.3 | | 10.4 | | | |
| | 550 | KIEV | 6 | 1022.7 | 1023.7 | 1.5 | 42.0 | | | |
| | 8800 | ATHN | 46 | 1023 | 1024.2 | 19.7 | 68.5 | 20.6 | | |
| | 8800 | ATHN | 46 | | 1029 | | 63.6 | | | |
| | 650 | GORK | 46 | 1026.1 | 1030.6 | 5 | 173.0 | | | |
| | 650 | GORK | | 1026.1 | 1030.8 | | 149.0 | | | |
| | 550 | KIEV | 6 | 1028.5 | 1030.6 | 3 | 123.0 | | | |
| | 221 | ABST | | 1028.5 | 1029.5 | 2.5 | 27.0 | 9.0 | | |
| | 207 | IZMI | 41 | 1028.9 | 1029 | 2.7 | 500.0 | | | |
| | 188 | KIEV | 6 | 1028 | 1028.5 | 2.8 | 366.0U | | | |
| | 234 | POTS | 40 | 1029.6 | 1029.7 | .8 | 550.0 | 15.0 | | |
| | 33 | UPIC | 45 | 1029.5 | 1030.5 | 1.5 | | | | |
| | 510 | POTS | 41 | 1034 | 1042 | 10 | 30.0 | 1.0 | | |
| | 33 | UPIC | 45 | 1034 | 1036.5 | 6 | | | | |
| | 200 | GORK | 6 | 1044.8 | 1045 | .4 | 120.0 | 60.0 | | |
| | 188 | KIEV | 41 | 1046 | 1048.6 | 6.2 | 244.0U | | | |
| | 550 | KIEV | 6 | 1047 | 1048 | 3.4 | 153.0 | | | |
| | 3000 | BERL | 4 | 1112.5 | 1114.5 | 3.5 | 43.0 | 16.0 | | |
| | 234 | POTS | 45 | 1115.1 | 1115.5 | .3 | 100.0 | 20.0 | | |
| | 207 | IZMI | 6 | 1115.2 | 1115.5 | .6 | 250.0 | 140.0 | | |
| | 200 | GORK | 6 | 1115.3 | 1115.5 | .4 | 130.0 | | | |
| | 188 | KIEV | 6 | 1115.3 | 1115.2 | .7 | 465.0U | | | |
| | 9240 | ARCE | 21 | 1117 U | 1220.2 | 250 D | | | | |
| | 3000 | BERL | 4 | 1117 | 1119 | 2.5 | 29.0 | 11.0 | | |
| | 3000 | BERL | 2 | 1120 | 1121.5 | 4 | 4.8 | 2.2 | | |
| | 6100 | KISV | 1 | 1121 | 1121.5 | 4 | 4.0 | | | |
| | 6100 | KISV | 2 | 1138 | 1139 | 12 | 11.0 | | | |
| | 930 | BORD | 45 | 1213 | 1214 | 2 | 79.0 | 2.0 | | |
| | 950 | GORK | 3 | 1214 | 1214.2 | .6 | 35.0 | | | |
| | 808 | ONDR | 5 | 1214 | 1214 | .5 | 105.0 | | | |
| | 536 | ONDR | 45 | 1214.5 | 1214.5 | .5 | 85.0 | | | |
| | 550 | KIEV | 6 | 1217.7 | 1219.2 | 2 | 105.0 | | | |
| | 808 | ONDR | 45 | 1218.5 | 1219.5 | 2 | 105.0 | | | |
| | 650 | GORK | 45 | 1218.7 | 1218.9 | 1.7 | 18.4 | | | |
| | 650 | GORK | | 1218.7 | 1219.8 | | 89.0 | | | |
| | 536 | ONDR | 45 | 1218 | 1219.5 | 3.5 | 95.0 | | | |
| | 3000 | BERL | 2 | 1243 | 1243.5 | 1.5 | 5.9 | 2.2 | | |
| | 9240 | ARCE | 21 | 1256.8 | 1303 | 49.5 | | | | |
| | 3000 | BERL | 4 | 1257 | 1300 | 6 | 54.0 | 16.0 | | |
| | 930 | BORD | 45 | 1257 | 1259.5 | 7 | 290.0 | 7.0 | | |
| | 808 | ONDR | 45 | 1257 | 1300 | 7.5 | 200.0 | | | |
| | 650 | GORK | 46 | 1257 | 1257.6 | 11.6 | 78.0 | | | |
| | 650 | GORK | | 1257 | 1300.2 | | 203.0 | | | |
| | 650 | GORK | | 1257 | 1300.8 | | 210.0 | | | |
| | 606 | SGMR | 4 | 1257 | 1259.7 | 7 | 229.1 | 68.7 | | |
| | 550 | KIEV | 41 | 1257 | 1300 | 6.7 | 146.0 | | | |
| | 536 | ONDR | 45 | 1257 | 1259.5 | 8 | 135.0 | | | |
| | 9500 | BERL | 4 | 1258 | 1300 | 5 | 159.0 | 74.0 | | |
| | 7000 | SAOP | 45 | 1258.4 | 1300 | 4.1 | 216.7 | 54.3 | | |
| | 15400 | SGMR | 4 | 1259.1 | 1259.9 | 4.9 | 147.6 | 44.3 | | |
| | 9240 | ARCE | 4 | 1259.3 | 1259.9 | 3.2 | | | | |
| | 8800 | SGMR | 4 | 1259 | 1259.8 | 9 | 202.5 | 60.7 | | |
| | 8800 | ATHN | 46 | 1259.3 | 1300 | 6.1 | 283.0 | 87.9 | | |
| | 8800 | ATHN | 46 | | 1300.6 | | 106.0 | | | |
| | 4995 | SGMR | 4 | 1259 | 1259.8 | 10 | 88.1 | 26.4 | | |
| | 4995 | ATHN | 4 | 1259.2 | 1300 | 3.1 | 79.6 | 23.9 | | |
| | 2800 | OTTA | 21 | 1259 | 1505 | 410 | 21.4 | 7.3 | | |
| | 2800 | OTTA | 4 | 1259 | 1300 | 5 | 63.0 | 15.8 | | |
| | 2695 | SGMR | 4 | 1259.1 | 1259.9 | 8.7 | 64.3 | 19.3 | | |
| | 2695 | ATHN | 4 | 1259.2 | 1300.1 | 2.8 | 54.3 | 16.3 | | |
| | 1470 | BERL | 4 | 1259 | 1300 | 11 | 45.0 | 17.0 | | |
| | 1420 | ARCE | 4 | 1259.1 | 1259.8 | 4 | | | | |
| | 1415 | SGMR | 4 | 1259.1 | 1259.9 | 8.3 | 52.1 | 15.6 | | |
| | 1415 | ATHN | 4 | 1259.5 | 1300.1 | 2 | 35.5 | 10.7 | | |
| | 950 | GORK | 3 | 1259.5 | 1259.7 | 1.9 | 98.0 | | | |
| | 410 | SGMR | 6 | 1259 | 1300.7 | 8.2 | 85.0 | 25.5 | | |
| | 245 | SGMR | 6 | 1259 | 1259.5 | 7 | 25.2 | 7.6 | | |
| | 234 | POTS | 45 | 1259.3 | 1259.6 | .5 | 100.0 | 15.0 | | |
| | 200 | GORK | 6 | 1259.4 | 1259.7 | 4 | 130.0D | | | |
| | 188 | KIEV | 6 | 1259.2 | 1259.5 | 3.7 | 585.0U | | | |
| | 113 | POTS | 45 | 1259.2 | 1259.5 | 1.3 | 28000.0 | 2800.0 | | |
| | 100 | GORK | 6 | 1259.2 | 1300 | 1.1 | 400.0 | | | |
| | 29 | UPIC | 45 | 1259.5 | 1300 | 1.5 | | | | |
| | 7000 | SAOP | 29 | 1302.5 | | 11 | | | | |
| | 1420 | ARCE | 29 | 1303.1 | | 63 | | | | |
| | 3000 | BERL | 4 | 1310 | 1312.5 | 3.5 | 53.0 | 22.0 | | |
| | 650 | GORK | 41 | 1310.3 | 1310.9 | 2.6 | 2.0 | | | |
| | 650 | GORK | | 1310.3 | 1312.6 | | 2.3 | | | |
| | 3000 | BERL | 3 | 1325 | 1325.9 | 1.5 | 22.0 | 9.7 | | |
| | 3000 | BERL | 4 | 1338 | 1341.5 | 4.5 | 166.0 | 42.0 | | |
| | 8800 | SGMR | 1 | 1339.2 | 1339.7 | 3 | 5.3 | 1.6 | | |
| | 4995 | SGMR | 20 | 1339.1 | 1340.1 | 13 | 5.9 | 3.5 | | |
| | 2695 | SGMR | 20 | 1339.2 | 1343.5 | 15.4 | 2.7 | 1.6 | | |
| | 3000 | BERL | 46 | 1350 | 1354 | 6 | 18.0 | 5.4 | | |
| | 3000 | BERL | 4 | 1400.7 | 1401.4 | 1.8 | 24.0 | 4.3 | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 930 | BORD | 45 | 1401 | 1401.1 | 1 | 35.0 | 2.0 | | |
| | 808 | ONDR | 5 | 1402 | 1402 | .5 | 135.0 | | | |
| | 536 | ONDR | 5 | 1402 | 1402 | .5 | 95.0 | | | |
| | 9240 | ARCE | 28 | 1416 U | 1444.6 | 29.3 | | | | |
| | 510 | POTS | 41 | 1416.3 | 1446 | 35 | 200.0 | 10.0 | | |
| | 15400 | SGMR | 22 | 1419.8 | 1424.5 | 12.2 | 24.5 | 14.4 | | |
| | 18 | MCMA | 6 | 1419 | 1420 | 2 | | | 1 | |
| | 4995 | SGMR | 40 | 1420.3 | 1425.3 | 11 | 19.9 | 6.0 | | |
| | 3000 | BERL | 46 | 1420 | 1446.5 | 65 | 581.0 | 99.0 | | |
| | 2800 | OTTA | 40 | 1420 | 1424.3 | 9 | 17.8 | | | |
| | 2695 | SGMR | 40 | 1420.5 | 1423.5 | 9.5 | 7.8 | 2.4 | | |
| | 1470 | BERL | 46 | 1420 | 1446.5 | 40 | 201.0 | 75.0 | | |
| | 1420 | BOUL | 8 | 1420 | 1421 | 1.5 | 4.0 | 1.0 | | |
| | 1420 | ARCE | 1 | 1420.5 | 1421 | .8 | | | | |
| | 1415 | SGMR | 40 | 1420.7 | 1424.1 | 9.1 | 32.9 | 9.9 | | |
| | 930 | BORD | 40 | 1420 | 1424.2 | 5 | 170.0 | 3.0 | | |
| | 808 | ONDR | 45 | 1420 | 1421.5 | 4.5 | 165.0 | | | |
| | 606 | SGMR | 47 | 1420.3 | 1421.2 | 7.2 | 266.0 | 382.8 | | |
| | 606 | SGMR | 47 | | 1421.9 | | 957.0 | | | |
| | 536 | ONDR | 45 | 1420 | 1420.5 | 7.5 | 150.0 | | | |
| | 410 | SGMR | 6 | 1420.5 | 1421.2 | 7.1 | 90.5 | 27.2 | | |
| | 245 | SGMR | 6 | 1420.3 | 1420.7 | 1.2 | 25.5 | 7.7 | | |
| | 113 | POTS | 45 | 1420.2 | 1420.8 | 1.1 | 14000.0 | 800.0 | | |
| | 29 | UPIC | 45 | 1421 | 1421.5 | 1 | | | | |
| | 9500 | BERL | 46 | 1422 | 1446.3 | 51 | 1022.0 | 290.0 | | |
| | 8800 | SGMR | 40 | 1422.5 | 1424.5 | 10.5 | 58.3 | 17.5 | | |
| | 7000 | SAOP | 28 | 1422.8 | | 1 | | | | |
| | 8800 | ATHN | 4 | 1423.7 | 1424.5 | 6.7 | 48.9 | 14.7 | | |
| | 7000 | SAOP | 45 | 1423.8 | 1424.5 | 2.5 | 69.2 | 28.9 | | |
| | 4995 | BOUL | 3 | 1423.5 | 1425.5 | 5 | 20.0 | 5.0 | | |
| | 4995 | ATHN | 4 | 1423.6 | 1425.3 | 7.2 | 15.6 | 4.7 | | |
| | 7000 | SAOP | 29 | 1426.7 | | 3 | | | | |
| | 2695 | SGMR | 4 | 1432.5 | 1446.6 | 24.3 | 460.0 | 138.0 | | |
| | 4995 | SGMR | 47 | 1433 | 1446.4 | 23.9 | 1080.0 | 324.0 | | |
| | 8800 | ATHN | 47 | 1434.4 | 1446.3 | 17.6 | 1283.0 | 385.0 | | |
| | 7000 | SAOP | 45 | 1434.9 | 1446.2 | 18 | 1735.4 | 167.3 | | |
| | 4995 | BOUL | 47 | 1434 | 1447.5 | 49 | 526.0 | 169.0 | | |
| | 4995 | ATHN | 47 | 1434.4 | 1446.4 | 17.6 | 740.0 | 220.0 | | |
| | 2695 | BOUL | 3 | 1434.5 | 1448 | 86 | 258.0 | 61.0 | | |
| | 2695 | ATHN | 4 | 1434.4 | 1446.5 | 15.5 | 401.0 | 120.0 | | |
| | 1415 | ATHN | 4 | 1434.7 | 1446.9 | 14.7 | 146.0 | 43.8 | | |
| | 8800 | SGMR | 47 | 1435.2 | 1446.3 | 20.8 | 1665.0 | 500.0 | | |
| | 2800 | OTTA | 4 | 1435 | 1446.6 | 21 | 444.0 | 53.0 | | |
| | 1420 | BOUL | 45 | 1435.5 | 1447.5 | 18 | 108.0 | 32.0 | | |
| | 1420 | ARCE | 28 | 1435.8 | 1442 | 9.6 | | | | |
| | 1415 | SGMR | 4 | 1435 | 1446.6 | 18.3 | 250.0 | 75.0 | | |
| | 15400 | SGMR | 47 | 1436.3 | 1446.3 | 16.7 | 707.0 | 212.0 | | |
| | 410 | SGMR | 49 | 1436.5 | 1446.2 | 39.7 | 2570.0 | 770.0 | | |
| | 606 | SGMR | 46 | 1437.3 | 1442.3 | 39.2 | 75.8 | 104.0 | | |
| | 606 | SGMR | 46 | | 1446.2 | | 260.0 | | | |
| | 930 | BORD | 45 | 1439 | 1446.6 | 15 | 611.0 | 52.0 | | |
| | 808 | ONDR | 45 | 1439 | 1447 | 15.5 | 235.0 | | | |
| | 536 | ONDR | 45 | 1439 | 1442 | 18.5 | 100.0 | | | |
| | 245 | SGMR | 6 | 1441.5 | 1446.6 | 33.7 | 143.0 | 43.0 | | |
| | 234 | POTS | 41 | 1444.4 | 1446.7 | 9.2 | 1800.0 | 30.0 | | |
| | 9240 | ARCE | 4 | 1445.7 | 1446.3 | 8.4 | | | | |
| | 1420 | ARCE | 4 | 1445.4 | 1446.5 | 4.6 | | | | |
| | 18 | MCMA | 6 | 1445 | 1447 | 4 | | | | |
| | 35000 | SGMR | 4 | 1446.2 | 1447.2 | 5 | 223.0 | 89.0 | 2 | |
| | 29 | UPIC | 45 | 1447 | 1448.5 | 2 | | | | |
| | 2695 | ATHN | 29 | 1449.9 | 1449.9 | 25.5 | 45.6 | 13.7 | | |
| | 1415 | ATHN | 29 | 1449.4 | 1449.4 | 21.6 | 14.8 | 4.4 | | |
| | 1420 | ARCE | 29 | 1450 | | 52 | | | | |
| | 8800 | ATHN | 29 | 1452 | 1452 | 31 | 81.5 | 24.4 | | |
| | 4995 | ATHN | 29 | 1452 | 1452 | 30.7 | 64.4 | 18.7 | | |
| | 15400 | SGMR | 29 | 1453 | 1453 | 52 | 64.8 | 32.4 | | |
| | 7000 | SAOP | 29 | 1453.6 | | 50.3 | | | | |
| | 1415 | SGMR | 29 | 1453.3 | 1453.3 | 53.4 | 6.5 | 3.2 | | |
| | 9240 | ARCE | 29 | 1454.1 | | 46 | | | | |
| | 8800 | SGMR | 29 | 1456 | 1456 | 49 | 53.0 | 26.5 | | |
| | 4995 | SGMR | 29 | 1456.9 | 1456.9 | 46.6 | 30.8 | 15.4 | | |
| | 2695 | SGMR | 29 | 1456.8 | 1456.8 | 55.2 | 19.2 | 9.6 | | |
| | 245 | SGMR | 43 | 1640 | 1824.8 | 324 D | 138.4 | | | |
| | 18 | MCMA | 6 | 1707 | 1708 | 3 | | | 2 | |
| | 18 | MCMA | 41 | 1714 | 1718 | 5 | | | 2 | |
| | 7000 | SAOP | 4 | 1728.7 | 1730.4 | 3.9 | 512.2 | 83.4 | | |
| | 4995 | BOUL | 8 | 1728.5 | 1732.5 | 8 | 188.0 | 51.0 | | |
| | 4995 | SGMR | 3 | 1728.5 | 1731.9 | 20.3 | 337.8 | 101.3 | | |
| | 1415 | SGMR | 3 | 1728.6 | 1732 | 10.2 | 78.5 | 23.6 | | |
| | 8800 | SGMR | 3 | 1729.6 | 1731.9 | 14.9 | 387.4 | 116.2 | | |
| | 8800 | PALE | 3 | 1730.6 | 1731.8 | 12.6 | 360.0 | 110.0 | | |
| | 2695 | SGMR | 3 | 1730.9 | 1732 | 19.4 | 144.7 | 43.4 | | |
| | 1420 | BOUL | 8 | 1730.5 | 1732 | 19 | 30.0 | 10.0 | | |
| | 410 | SGMR | 6 | 1730.7 | 1731.8 | 6.1 | 205.0 | 60.0 | | |
| | 18 | MCMA | 6 | 1730 | 1731 | 2 | | | | |
| | 15400 | SGMR | 3 | 1731 | 1731.9 | 12.8 | 170.6 | 51.2 | 2 | |
| | 2800 | OTTA | 3 | 1731 | 1732.1 | 4 | 152.0 | 30.0 | | |
| | 2695 | BOUL | 8 | 1731.5 | 1733.5 | 12 | 81.0 | 30.0 | | |
| | 1415 | PALE | 3 | 1731 | 1732 | 8.8 | 74.0 | 17.0 | | |
| | 606 | SGMR | 4 | 1731 | 1732.3 | 6 | 63.0 | 18.9 | | |

# SOLAR RADIO EMISSION
## OUTSTANDING OCCURRENCES

OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 245 | SGMR | 48 | 1731 | 1731.8 | 8.8 | 655.2 | 197.0 | | |
| | 7000 | SAOP | 29 | 1732.6 | | 11.8 | | | | |
| | 2800 | OTTA | 30 | 1735 | 1735 | 15 | 4.6 | 2.3 | | |
| | 2800 | OTTA | 1 | 1738.8 | 1739 | 3 | 1.6 | 1.0 | | |
| | 8800 | SGMR | 3 | 1756.5 | 1757.7 | 17.1 | 22.8 | 6.8 | | |
| | 4995 | SGMR | 1 | 1756.6 | 1757.7 | 5.6 | 9.0 | .3 | | |
| | 7000 | SAOP | 1 | 1757.2 | 1758.9 | 1.4 | 22.8 | 11.5 | | |
| | 2800 | OTTA | 23 | 1810 | 1830 | 75 | 4.8 | 2.0 | | |
| | 8800 | SGMR | 20 | 1817.1 | 1831.1 | 53.7 | 26.5 | 10.0 | | |
| | 4995 | SGMR | 22 | 1819.7 | 1831.1 | 48.3 | 25.4 | 7.6 | | |
| | 2695 | SGMR | 20 | 1822.5 | 1831.1 | 61.8 | 5.4 | 1.6 | | |
| | 4995 | BOUL | 45 | 1827.5 | 1831 | 8.5 | 23.0 | 8.0 | | |
| | 7000 | SAOP | 22 | 1828.2 | | 6.6 | | 15.2 | | |
| | 2695 | BOUL | 45 | 1828.5 | 1832 | 4 | 5.0 | 2.0 | | |
| | 2800 | OTTA | 1 | 1830.9 | 1831 | 1 | 2.6 | 1.3 | | |
| | 18 | MCMA | 6 | 1840 | 1841 | 2 | | | .1 | |
| | 7000 | SAOP | 1 | 1916.6 | | .3 | 18.8 | 9.4 | | |
| | 18 | MCMA | 42 | 1929 | 1931 | 20 | | | 1 | |
| | 2695 | BOUL | 45 | 2037.5 | 2048 | 16 | 5.0 | 2.0 | | |
| | 2800 | OTTA | 22 | 2038 | 2047 | 30 | 4.8 | 2.4 | | |
| | 2695 | PENT | 240 | 2112 | 2247 | 95 | 4.2 | 2.1 | | |
| | 4995 | BOUL | 45 | 2217.5 | 2219 | 3 | 10.0 | 3.0 | | |
| | 2695 | PENT | 24P | 2248 | | 70 D | 4.2 | | | |
| | 1000 | TYKW | 5 | 2250.7 | 2250.8 | .3 | 6.0 | 2.0 | | |
| | 2695 | PENT | 8 | 2251 | 2251 | .2 | 3.6 | | | |
| | 1000 | TYKW | 5 | 2345 | 2345.5 | 1 | 2.0 | 0.7 | | |
| 12 | 2000 | TYKW | 5 | 0130 | 0205 | 110 | 3.0 | 1.0 | | |
| | 3750 | TYKW | 45 | 0132 | 0137.8 | 100 | 13.0 | 3.0 | | |
| | 8800 | PALE | 3 | 0137.7 | 0137.9 | 3.6 | 26.0 | 7.9 | | |
| | 8800 | MANI | 3 | 0138.3 | 0138.9 | 2.4 | 36.2 | 14.5 | | |
| | 4995 | MANI | 1 | 0138.3 | 0139.1 | 2.4 | 8.3 | 2.8 | | |
| | 9400 | TYKW | 5 | 0417 | 0433 | 90 | 9.0 | 4.0 | | |
| | 3750 | TYKW | 45 | 0417 | 0450 | 90 | 9.0 | 3.0 | | |
| | 2000 | TYKW | 5 | 0417 | 0493 | 80 | 3.0 | 1.5 | | |
| | 200 | GORK | 44 | 0457 E | | 438 D | | 5.0 | | |
| | 100 | GORK | 44 | 0457 E | | 484 D | | 30.0 | | |
| | 260 | ONDR | 44 | 0700 | 0737 | 270 | 45.0 | | | |
| | 188 | KIEV | 44 | 0700 E | | 335 | 160.0 | 59.0 | | |
| | 410 | SGMR | 44 | 1055 E | 1329.5 | 667 D | 27.9 | | | |
| | 245 | SGMR | 44 | 1055 E | 1208.2 | 667 D | 159.2 | | | |
| | 100 | HIRA | 44 | 2045 E | 2102 | 480 D | 200.0 | 30.0 | | |
| | 8800 | ATHN | 3 | 0518.1 | 0518.7 | 2 | 44.8 | 13.4 | | |
| | 9400 | TYKW | 5 | 0552 | 0552.3 | 1 | 7.0 | 2.0 | | |
| | 8800 | MANI | 1 | 0552 | 0552.5 | 1.9 | 7.2 | 1.8 | | |
| | 4995 | MANI | 1 | 0552 | 0552.6 | 2.1 | 6.4 | 1.8 | | |
| | 3750 | TYKW | 5 | 0552 | 0552.3 | 1 | 5.0 | 2.0 | | |
| | 2695 | MANI | 1 | 0552 | 0552.5 | 1.4 | 2.0 | 1.0 | | |
| | 2000 | TYKW | 5 | 0552 | 0552.3 | 1.5 | 4.0 | 1.0 | | |
| | 1415 | MANI | 1 | 0552.1 | 0552.6 | 1.3 | 1.4 | .5 | | |
| | 1000 | TYKW | 5 | 0552 | 0552.3 | 1 | .9 | 0.3 | | |
| | 606 | MANI | 8 | 0552.2 | 0552.5 | .7 | 52.0 | 7.8 | | |
| | 3100 | CRIM | 20 | 0645 | 0720 | 75 | 14.0 | 5.0 | | |
| | 6100 | KISV | 20 | 0709 | 0720 | 40 | 17.0 | | | |
| | 3000 | BERL | 22 | 0713 | 0720.5 | 44 | 5.5 | | | |
| | 1470 | BERL | 20 | 0715 | 0723 | 25 | 2.6 | | | |
| | 9500 | BERL | 20 | 0717.5 | 0728 | 38 | 11.0 | | | |
| | 9100 | GORK | 22 | 0717.5 | 0728.5 | 34.2 | 8.8 | 6.4 | | |
| | 8800 | ATHN | 20 | 0718.5 | 0720.3 | 14.5 | 4.8 | 3.0 | | |
| | 100 | GORK | 41 | 0743.9 | 0745.8 | 6 | 400.0 | | | |
| | 100 | GORK | | 0743.9 | 0749.3 | | 600.0 | | | |
| | 1420 | ARCE | 20 | 0808.9 | 0906.3 | 100 | | | | |
| | 9240 | ARCE | 22 | 0811.7 | 0906.4 | 80.5 | | | | |
| | 9100 | GORK | 21 | 0812 | 0830 U | 41.5 | 5.0 | 2.8 | | |
| | 6100 | KISV | 3 | 0812 | 0814 | 5 | 17.0 | | | |
| | 9100 | GORK | 1 | 0813.2 | 0814 | 1.7 | 5.8 | 2.9 | | |
| | 8800 | ATHN | 1 | 0813.7 | 0814.1 | 1.1 | 9.6 | 3.0 | | |
| | 3100 | CRIM | 20 | 0813 | 0910 | 80 | 5.0 | 2.0 | | |
| | 200 | GORK | 6 | 0822.7 | 0822.8 | .5 | 75.0 | 30.0 | | |
| | 6100 | KISV | 20 | 0848 | 0906 | 44 | 11.0 | | | |
| | 9100 | GORK | 23 | 0857 | 0909 | 29.5 | 10.5 | 5.3 | | |
| | 9100 | GORK | 1 | 0905.5 | 0906 | 2 | 8.5 | 4.3 | | |
| | 3000 | BERL | 21 | 1002 | 1342 | 263 D | 18.0 | | | |
| | 3100 | CRIM | | 1029 | | | | | | |
| | 9240 | ARCE | 25 | 1028.7 | | | | | | |
| | 234 | POTS | 45 | 1047 | 1146 | 223 D | 120.0 | | | |
| | 6100 | KISV | 1 | 1049 | 1050.5 | 10 | 6.0 | | | |
| | 1470 | BERL | 21 | 1103 | 1228.8 | 202 D | 10.0 | | | |
| | 1420 | ARCE | 21 | 1106.2 | 1205.8 | 108 | | | | |
| | 950 | GORK | 21 | 1106.8 | 1154 U | 74.2D | 40.0 | | | |
| | 536 | ONDR | 45 | 1107.5 | 1145.5 | 65 | 195.0 | | | |
| | 113 | POTS | 45 | 1116 | 1145.5 | 194 D | 200.0 | | | |
| | 207 | IZMI | 24 | 1123 | 1146 | 33 | 180.0 | 40.0 | | |
| | 808 | ONDR | 45 | 1127 | 1146.5 | 42.5 | 210.0 | | | |
| | 650 | GORK | 21 | 1127.8 | 1156 | 57 | 12.0 | | | |
| | 245 | SGMR | 6 | 1129.5 | 1145.9 | 81.5 | 242.2 | 72.4 | | |
| | 650 | GORK | 3 | 1130 | 1130.3 | 1 | 15.0 | | | |
| | 260 | ONDR | 45 | 1130 | 1145 | 30 | 155.0 | | | |
| | 6100 | KISV | 47 | 1132 | | 28 D | 240.0D | | | |
| | 188 | KIEV | 48 | 1134.2 | 1144.5 | 44.3 | 515.0 | | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY $10^{22}$ Wm$^{-2}$ Hz$^{-1}$ MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 9500 | BERL | 21 | 1135 | 1235 | 155 | 18.0 | | | |
| | 7000 | SAOP | 28 | 1135.2 | | 2.5 | | | | |
| | 3000 | BERL | 4 | 1135 | 1146.4 | 73 | 182.0 | 48.0 | | |
| | 606 | SGMR | 46 | 1135 | 1145.7 | 41.1 | 267.0 | 80.1 | | |
| | 606 | SGMR | 46 | | 1147.1 | | 182.5 | | | |
| | 510 | POTS | 45 | 1135 | 1145.5 | 37 | 200.0 | 30.0 | | |
| | 1470 | BERL | 4 | 1136 | 1146.7 | 41 | 102.0 | | | |
| | 930 | BORD | 45 | 1136 | 1146.3 | 36 | 107.0 | 16.0 | | |
| | 550 | KIEV | 48 | 1136.5 | 1146.2 | 35.8 | 290.0D | | | |
| | 410 | SGMR | 49 | 1136.1 | 1146 | 38.2 | 680.0 | 272.0 | | |
| | 100 | GORK | 24 | 1136 | 1145.8 | 45 D | 500.0 | | | |
| | 7000 | SAOP | 45 | 1137.7 | 1146.3 | 28.9 | 410.6 | 38.2 | | |
| | 29 | UPIC | 45 | 1138 | 1144 | 34 | | | | |
| | 8800 | ATHN | 47 | 1139.3 | 1146.3 | 13.6 | 765.0 | 230.0 | | |
| | 950 | GORK | 46 | 1139.4 | 1140.5 | 14.6 | 57.0 | | | |
| | 950 | GORK | | 1139.4 | 1146.5 | | 140.0 | | | |
| | 650 | GORK | 3 | 1139.6 | 1140.4 | 1.4 | 26.0 | | | |
| | 4995 | ATHN | 46 | 1140.5 | 1146.2 | 11.4 | 410.0 | 123.0 | | |
| | 4995 | ATHN | 46 | | 1146.9 | | 325.0 | | | |
| | 1420 | ARCE | 46 | 1140.9 | 1146.3 | 21 U | | | | |
| | 1420 | ARCE | | 1140.9 | 1144.9 | 4.4 | | | | |
| | 1420 | ARCE | | 1145.3 | 1146.3 | 16.6U | | | | |
| | 15400 | SGMR | 47 | 1141.9 | 1145.2 | 13.1 | 541.0 | 233.0 | | |
| | 15400 | SGMR | 47 | | 1146.4 | | 583.0 | | | |
| | 8800 | SGMR | 47 | 1141 U | 1145.2 | 16.7U | 391.0 | 458.4U | | |
| | 8800 | SGMR | 47 | | 1146.4 | | 1146.0 | | | |
| | 4995 | SGMR | 46 | 1141 U | 1145.3 | 16 U | 250.0 | 114.0U | | |
| | 4995 | SGMR | 46 | | 1146.4 | | 380.0 | | | |
| | 2695 | SGMR | 46 | 1141 U | 1145.3 | 15.5U | 102.7 | 38.2U | | |
| | 2695 | SGMR | 46 | | 1146.4 | | 127.4 | | | |
| | 2695 | ATHN | 46 | 1141.3 | 1145.2 | 9.9 | 106.6 | 40.1 | | |
| | 2695 | ATHN | 46 | | 1146.4 | | 133.8 | | | |
| | 1415 | SGMR | 46 | 1141 | 1145.1 | 15 | 84.9 | 27.9 | | |
| | 1415 | SGMR | 46 | | 1146.5 | | 93.1 | | | |
| | 1415 | ATHN | 46 | 1141.3 | 1144.8 | 9.9 | 80.8 | 26.5 | | |
| | 1415 | ATHN | 46 | | 1146.4 | | 88.4 | | | |
| | 9500 | BERL | 4 | 1142 | 1146.2 | 38 | 700.0 | 204.0 | | |
| | 9240 | ARCE | 46 | 1142.5 | 1146.4 | 9.4 | | | | |
| | 9240 | ARCE | | 1142.5 | 1145.2 | 3.1 | | | | |
| | 9240 | ARCE | | 1145.6 | 1146.4 | 6.3 | | | | |
| | 650 | GORK | 3 | 1142 | 1146 | 6.5 | 70.0D | | | |
| | 200 | GORK | 24 | 1142.5 | 1148.3 | 39.4 | 150.0 | | | |
| | 35000 | SGMR | 47 | 1144.6 | 1145.3 | 7.1 | 591.2 | 236.5 | | |
| | 35000 | SGMR | 47 | | 1147 | | 389.9 | | | |
| | 9240 | ARCE | 29 | 1151.9 | | 26 | | | | |
| | 4995 | ATHN | 29 | 1151.9 | 1151.9 | 25.8 | 46.1 | 9.2 | | |
| | 2695 | ATHN | 29 | 1151.2 | 1151.2 | 20.1 | 29.3 | 5.9 | | |
| | 1415 | ATHN | 29 | 1151.2 | 1151.2 | 18.2 | 28.2 | 5.6 | | |
| | 8800 | ATHN | 29 | 1152.9 | 1152.9 | 24.7 | 65.2 | 13.0 | | |
| | 15400 | SGMR | 29 | 1155 | 1155 | 32.8 | 56.5 | 28.3 | | |
| | 2695 | SGMR | 29 | 1156.5 | 1156.5 | 64.5 | 19.2 | 9.8 | | |
| | 1415 | SGMR | 29 | 1156 | 1156 | 18.5 | 18.5 | 9.2 | | |
| | 8800 | SGMR | 29 | 1157.7 | 1157.7 | 48.4 | 26.0 | 13.0 | | |
| | 4995 | SGMR | 29 | 1157 | 1157 | 61 | 27.5 | 13.7 | | |
| | 260 | ONDR | 45 | 1200 | 1207.5 | 100 | 110.0 | | | |
| | 7000 | SAOP | 29 | 1206.6 | | 49.3 | | | | |
| | 536 | ONDR | 5 | 1237 | 1237 | .5 | 40.0 | | | |
| | 2800 | OTTA | 26 | 1238 | 1310 | 32 | -6.6 | -4.0 | | |
| | 9240 | ARCE | 21 | 1240 | 1439.6 | 172 | | | | |
| | 536 | ONDR | 5 | 1242 | 1242 | .5 | 65.0 | | | |
| | 930 | BORD | 45 | 1251 | 1252 | 2 | 8.0 | 2.0 | | |
| | 29 | UPIC | 45 | 1251.5 | 1252 | 1 | | | | |
| | 1420 | ARCE | 23 | 1302 U | 1316.8 | 31 U | | | | |
| | 2695 | SGMR | 41 | 1307.2 | 1316.7 | 39.2 | 32.2 | 9.7 | | |
| | 9500 | BERL | 46 | 1308.5 | 1316.5 | 32 | 58.0 | | | |
| | 4995 | ATHN | 22 | 1308.9 | 1316.8 | 24.4 | 57.2 | 34.3 | | |
| | 15400 | SGMR | 41 | 1309.1 | 1316.4 | 17.5 | 27.1 | 7.2 | | |
| | 9240 | ARCE | 3 | 1309.4 | 1309.8 | 1.2 | | | | |
| | 8800 | SGMR | 41 | 1309.2 | 1316.5 | 18.1 | 71.2 | 21.3 | | |
| | 8800 | ATHN | 22 | 1309 | 1316.5 | 23.2 | 99.4 | 59.6 | | |
| | 4995 | SGMR | 41 | 1309.4 | 1316.6 | 26.7 | 49.6 | 14.9 | | |
| | 9240 | ARCE | 30 | 1310.6 | 1311.1 | 26.3 | | | | |
| | 7000 | SAOP | 45 | 1312.6 | 1320.7 | 18.7 | 98.2 | 24.5 | | |
| | 3000 | BERL | 46 | 1314.5 | 1316.6 | 16 | 44.0 | | | |
| | 2800 | OTTA | 46 | 1314 | 1316.8 | 13 | 35.0 | 13.4 | | |
| | 2800 | OTTA | | 1314 | 1316.8 | 7 | 35.0 | | | |
| | 2800 | OTTA | | 1321 | 1323.5 | 6 | 29.0 | | | |
| | 2695 | ATHN | 22 | 1314.9 | 1316.8 | 18.5 | 29.3 | 17.6 | | |
| | 1415 | SGMR | 41 | 1314.9 | 1316.4 | 12.2 | 31.8 | 9.0 | | |
| | 536 | ONDR | 45 | 1314.5 | 1318.5 | 5.5 | 70.0 | | | |
| | 9240 | ARCE | 4 | 1315.6 | 1316.7 | 3 | | | | |
| | 1470 | BERL | 4 | 1315 | 1316.4 | 20 | 33.0 | | | |
| | 1415 | ATHN | 4 | 1315.4 | 1316.4 | 3.9 | 26.3 | 7.9 | | |
| | 930 | BORD | 45 | 1315 | 1316.5 | 5 | 54.0 | 7.0 | | |
| | 808 | ONDR | 45 | 1315.5 | 1315.5 | 10.5 | 130.0 | | | |
| | 606 | SGMR | 41 | 1315.7 | 1318.3 | 12.8 | 26.1 | 8.3 | | |
| | 29 | UPIC | 45 | 1315 | 1317 | 9 | | | | |
| | 1420 | ARCE | 8 | 1316.2 | 1316.3 | .5 | | | | |
| | 1420 | ARCE | 1 | 1318 | 1318.1 | .4 | | | | |
| | 536 | ONDR | 45 | 1323.5 | 1323.5 | .5 | 40.0 | | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## OCTOBER 1974

| OCT 1974 | FREQUENCY STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$ PEAK | FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$ MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 12 | 2800 OTTA | 29 | 1327 | 1327 | 83 | 7.0 | 3.5 | | |
| | 2800 OTTA | 20 | 1514 | 1516 | 10 | 3.0 | 1.5 | | |
| | 2800 OTTA | 27 | 1526 | | 28 | 3.2 | 2.8 | | |
| | 2800 OTTA | 24 | 1526 | 1528 | 2 | 3.2 | 1.6 | | |
| | 2800 OTTA | 24P | 1528 | | 21 | 3.2 | | | |
| | 2800 OTTA | 26 | 1549 | 1554 | 5 | -3.2 | -1.6 | | |
| | 8800 SGMR | 22 | 1612.9 | 1621.9 | 20 | 17.7 | 5.3 | | |
| | 4995 SGMR | 22 | 1613.7 | 1622 | 30.8 | 8.2 | 2.5 | | |
| | 2800 OTTA | 22 | 1614 | 1619 | 14 | 4.6 | 2.0 | | |
| | 2695 SGMR | 22 | 1614.8 | 1619 | 11.1 | 3.1 | .9 | | |
| | 15400 SGMR | 4 | 1620.7 | 1621.9 | 8.7 | 10.4 | 4.2 | | |
| | 2800 OTTA | 26 | 1630 | 1715 | 45 | -9.2 | -4.6 | | |
| | 18 MCMA | 6 | 1708 | 1709 | 2 | | | 2 | |
| | 4995 BOUL | 8 | 1725.5 | 1729 | 10.5 | 69.0 | 26.0 | | |
| | 15400 SGMR | 4 | 1726.5 | 1729.3 | 5 | 82.1 | 24.6 | | |
| | 8800 SGMR | 4 | 1726.7 | 1729.3 | 8.8 | 149.2 | 44.7 | | |
| | 7000 SAOP | 4 | 1726.6 | 1728.9 | 5 | 158.0 | 78.9 | | |
| | 4995 SGMR | 4 | 1726.3 | 1729.3 | 8.7 | 92.8 | 27.8 | | |
| | 2695 SGMR | 3 | 1726.3 | 1729.4 | 8.7 | 62.1 | 18.6 | | |
| | 1415 SGMR | 3 | 1726.8 | 1730.4 | 8.9 | 16.0 | 4.8 | | |
| | 2695 BOUL | 8 | 1727.5 | 1731 | 19 | 25.0 | 8.0 | | |
| | 606 SGMR | 40 | 1727.2 | 1728.1 | 6.4 | 31.2 | 9.3 | | |
| | 8800 PALE | 3 | 1728.3 | 1729.3 | 8.7 | 120.0 | 37.0 | | |
| | 2800 OTTA | 4 | 1728 | 1729.3 | 5.2 | 65.0 | 23.2 | | |
| | 245 SGMR | 6 | 1728.5 | 1729.1 | 5.5 | 79.6 | 23.9 | | |
| | 1420 BOUL | 21 | 1729 | 1729.5 | 21 | 12.0 | 3.0 | | |
| | 1415 PALE | 3 | 1729 | 1729.3 | 8 | 12.0 | 3.7 | | |
| | 15400 SGMR | 29 | 1731.5 | 1731.5 | 32.5 | 7.2 | 3.5 | | |
| | 7000 SAOP | 29 | 1731.6 | | 12.2 | | | | |
| | 410 SGMR | 6 | 1731.8 | 1732.4 | 1.9 | 31.5 | 9.5 | | |
| | 2800 OTTA | 30 | 1733.2 | 1733.2 | 50 | 8.6 | 3.0 | | |
| | 2800 OTTA | 1 | 1734 | 1734.9 | 1 | 4.2 | 1.4 | | |
| | 8800 SGMR | 29 | 1735.5 | 1735.5 | 29 | 6.8 | 3.4 | | |
| | 4995 SGMR | 29 | 1735 | 1735 | 32.4 | 8.8 | 4.4 | | |
| | 2695 SGMR | 29 | 1735 | 1735 | 62.5 | 10.2 | 5.1 | | |
| | 1415 SGMR | 29 | 1735.7 | 1735.7 | 12.1 | 3.3 | 1.5 | | |
| | 4995 SGMR | 22 | 1855.9 | 1906.7 | 29.1 | 24.4 | 7.3 | | |
| | 2695 SGMR | 22 | 1858.5 | 1907.2 | 68.5 | 13.3 | 4.0 | | |
| | 8800 SGMR | 22 | 1859.6 | 1906.8 | 24 | 20.3 | 6.1 | | |
| | 15400 SGMR | 22 | 1900.5 | 1907.9 | 32.9 | 15.8 | 4.8 | | |
| | 7000 SAOP | | 1900 U | | 29.1U | | | | CALIBRATION |
| | 4995 BOUL | 45 | 1900 | 1907 | 20 | 20.0 | 5.0 | | |
| | 2800 OTTA | 45 | 1900 | 1907 | 9 | 9.4 | 4.7 | | |
| | 2695 BOUL | 45 | 1900.5 | 1908 | 19.5 | 10.0 | 3.0 | | |
| | 2800 OTTA | 29 | 1909 | 1909 | 95 | 4.4 | 2.2 | | |
| | 2800 OTTA | 1 | 1958.3 | 1958.7 | 1 | 4.8 | 2.4 | | |
| | 2695 PENT | 27A | 2205 | | 85 | 2.4 | 2.0 | | |
| | 2695 PENT | 24 | 2205 | 2209 | 4 | 2.4 | 1.8 | | |
| | 2695 PENT | 24P | 2209 | | 50 | 2.4 | | | |
| | 2695 PENT | 1 | 2233 | 2233 | 1 | 6.2 | 3.1 | | |
| | 2695 BOUL | 8 | 2233.5 | 2234 | 1.5 | 7.0 | 2.0 | | |
| | 2695 PENT | 26 | 2259 | 2330 | 31 | -2.4 | -1.4 | | |
| 13 | 3750 TYKW | 45 | 0445 | 0527 | 95 | 28.0 | 9.0 | | |
| | 3750 TYKW | | 0445 | 0514.4 | | 70.0 | | | |
| | 9400 TYKW | 45 | 0450 | 0527 | 90 | 29.0 | 10.0 | | |
| | 2000 TYKW | 45 | 0450 | 0526.5 | 94 | 20.0 | 6.0 | | |
| | 4995 MANI | 4 | 0512.4 | 0528.2 | 19.3 | 27.3 | 12.7 | | |
| | 2695 MANI | 4 | 0512.9 | 0528.3 | 19.6 | 25.0 | 12.0 | | |
| | 8800 MANI | 3 | 0513.8 | 0522.4 | 17.9 | 36.2 | 12.7 | | |
| | 1415 MANI | 22 | 0513 | 0526.4 | 20.8 | 7.2 | 1.9 | | |
| | 1000 TYKW | 45 | 0523 | 0526.2 | 7 | 7.0 | 2.0 | | |
| | 1420 ARCE | 22 | 0821.8 | 0935.3 | 153 | | | | |
| | 9240 ARCE | 20 | 0826 | 0956.2 | 160 | | | | |
| | 6100 KISV | 1 | 0838 | 0839.5 | 3 | 10.0 | | | |
| | 3100 CRIM | 46 | 0840 | 0935 | 142 | 31.0 | 10.0 | | |
| | 3100 CRIM | | 0840 | 0954 | | 30.0 | | | |
| | 260 ONDR | 45 | 0858 | 0935 | 67 | 65.0 | | | |
| | 930 BORD | 45 | 0901 | 0902 | 2 | 11.0 | 2.0 | | |
| | 536 ONDR | 45 | 0902 | 0902 | .5 | 85.0 | | | |
| | 6100 KISV | 20 | 0908 | 0934.6 | 120 | 25.0 | | | |
| | 3000 BERL | 40 | 0908 | 0934 | 232 | 30.0 | | | |
| | 9500 BERL | 20 | 0915 | 0954 | 240 | 25.0 | | | |
| | 1470 BERL | 40 | 0915 | 0935 | 215 | 22.0 | | | |
| | 510 POTS | 45 | 0920.3 | 0935.5 | 25 | 15.0 | 2.0 | | |
| | 930 BORD | 45 | 0922 | 0927.6 | 21 | 34.0 | 6.0 | | |
| | 808 ONDR | 45 | 0922.5 | 0938 | 21 | 110.0 | | | |
| | 9100 GORK | 22 | 0923.7 | 1007 U | 96.3D | 21.0U | | | |
| | 188 KIEV | 41 | 0923 E | 0934.4 | 23.8 | 110.0 | | | |
| | 550 KIEV | 41 | 0929 | 0935.3 | 13.5 | 60.0 | | | |
| | 536 ONDR | 45 | 0930 | 0935.5 | 13 | 75.0 | | | |
| | 8800 ATHN | 2 | 0933.3 | 0934.6 | 6.5 | 9.6 | 2.9 | | |
| | 4995 ATHN | 4 | 0933.6 | 0934.6 | 6.2 | 12.5 | 3.8 | | |
| | 2695 ATHN | 4 | 0933.5 | 0935.2 | 6.1 | 21.3 | 6.4 | | |
| | 1415 ATHN | 4 | 0933.4 | 0935.7 | 6.6 | 20.4 | 6.1 | | |
| | 113 POTS | 41 | 0933.3 | 0934.1 | 15 | 600.0 | 3.0 | | |
| | 234 POTS | 45 | 0934 | 0935 | 1.9 | 200.0 | 6.0 | | |
| | 207 IZMI | 6 | 0934 | 0935 | 2.7 | 340.0 | | | |
| | 930 BORD | 5 | 1001 | 1005.5 | 1 | 37.0 | 1.0 | | |
| | 550 KIEV | 41 | 1024 | 1024.6 | 6 | 70.0 | | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 260 | ONDR | 45 | 1035 | 1043 | 9 | 20.0 | | | |
| | 260 | ONDR | 45 | 1054.5 | 1056 | 2.5 | 35.0 | | | |
| | 245 | SGMR | 44 | 1058 E | 1553.6 | 663 D | 28.1 | | | |
| | 260 | ONDR | 5 | 1107 | 1107 | .5 | 25.0 | | | |
| | 930 | BORD | 45 | 1240 | 1240.6 | 4 | 21.0 | 6.0 | | |
| | 260 | ONDR | 5 | 1331 | 1331 | .5 | 30.0 | | | |
| | 2800 | OTTA | 20 | 1353 | 1420 | 67 | 2.4 | 1.2 | | |
| ┌ | 2800 | OTTA | 27 | 1517 | | 98 | 1.8 | 1.5 | | |
| ├ | 2800 | OTTA | 24 | 1517 | 1532 | 15 | 1.8 | 0.9 | | |
| ├ | 2800 | OTTA | 24P | 1532 | | 68 | 1.8 | | | |
| └ | 2800 | OTTA | 26 | 1640 | 1655 | 15 | -1.8 | -0.9 | | |
| | 2800 | OTTA | 20 | 1728 | 1745 | 45 | 2.2 | 1.2 | | |
| ┌ | 2800 | OTTA | 27A | 1840 | | 135 | 2.2 | 2.0 | | |
| ├ | 2800 | OTTA | 24 | 1840 | 1850 | 10 | 2.2 | 1.4 | | |
| ├ | 2800 | OTTA | 24P | 1850 | | 106 | 2.2 | | | |
| ├ | 2800 | OTTA | 22 | 1940 | 1955 | 40 | 2.2 | 1.1 | | |
| ├ | 2800 | OTTA | 21 | 2024 | 2030 | 11 | 2.2 | 1.1 | | |
| ├ | 2800 | OTTA | 1 | 2024.5 | 2025 | 1.5 | 1.4 | 0.7 | | |
| └ | 2800 | OTTA | 26 | 2036 | 2055 | 19 | -3.4 | -1.7 | | |
| ┌ | 2695 | PENT | 21 | 2248 | | 40 | 2.8 | 1.8 | | |
| ├ | 2695 | PENT | 8 | 2251.9 | 2251.9 | | 3.4 | | | |
| ├ | 8800 | MANI | 4 | 2254 | 2257.2 | 5.3 | 225.0 | 35.6 | | |
| ├ | 4995 | MANI | 4 | 2254 | 2257.2 | 5.5 | 73.0 | 22.6 | | |
| ├ | 9400 | TYKW | 45 | 2256 | 2257 | 4 | 195.0 | 35.0 | | |
| ├ | 8800 | PALE | 4 | 2256 | 2256.9 | 9.2 | 180.0 | 54.0 | | |
| ├ | 4995 | BOUL | 8 | 2256 | 2257 | 3.5 | 38.0 | 13.0 | | |
| ├ | 3750 | TYKW | 5 | 2256 | 2257 | 3 | 15.0 | 4.0 | | |
| ├ | 2695 | MANI | 2 | 2256.3 | 2257.2 | 3.6 | 8.6 | 2.9 | | |
| ├ | 2695 | PENT | 1 | 2256.9 | 2257 | 1 | 4.0 | 2.0 | | |
| ├ | 2695 | BOUL | 8 | 2257.5 | 2258 | 1.5 | 7.0 | 2.0 | | |
| ├ | 3750 | TYKW | 29 | 2259 | | 30 | 2.0 | 1.0 | | |
| ├ | 1420 | BOUL | 3 | 2259.5 | 2300 | 2 | 2.0 | 1.0 | | |
| ├ | 9400 | TYKW | 29 | 2300 | | 35 | 6.0 | 3.0 | | |
| ├ | 1000 | TYKW | 5 | 2300 | 2301 | 3 | 5.0 | 0.8 | | |
| └ | 1420 | BOUL | 3 | 2306.5 | 2308.5 | 3.5 | 3.0 | 1.0 | | |
| 14 | 2000 | TYKW | 45 | 0111 | 0121 | 30 | 3.0 | 1.0 | | |
| ├ | 3750 | TYKW | 45 | 0119.5 | 0121.1 | 7 | 9.0 | 2.0 | | |
| └ | 9400 | TYKW | 45 | 0120 | 0121.1 | 4 | 5.0 | 2.0 | | |
| | 930 | BORD | 5 | 0739 | 0739.4 | 1 | 34.0 | 1.0 | | |
| | 6100 | KISV | 1 | 0932 | 0932.3 | 1 | 2.0 | | | |
| | 3100 | CRIM | 1 | 0953 | 0955 | 20 | 3.0 | 1.0 | | |
| | 260 | ONDR | 5 | 1235 | 1235 | .5 | 35.0 | | | |
| | 260 | ONDR | 5 | 1239 | 1239 | .5 | 40.0 | | | |
| | 2800 | OTTA | 20 | 1250 | 1305 | 50 | 2.2 | 1.4 | | |
| | 260 | ONDR | 5 | 1332 | 1332 | .5 | 25.0 | | | |
| ┌ | 2800 | OTTA | 27A | 1420 | | 110 | 1.2 | 1.1 | | |
| ├ | 2800 | OTTA | 24 | 1420 | 1424 | 4 | 1.2 | 0.6 | | |
| ├ | 2800 | OTTA | 24P | 1424 | | 96 | 1.2 | | | |
| └ | 2800 | OTTA | 1 | 1434 | 1436 | 4 | 2.4 | 1.2 | | |
| ┌ | 9400 | HUAN | 8 | 1501.7 | 1502 | .7 | 18.3 | 6.3 | | |
| ├ | 9240 | ARCE | 3 | 1501.7 | 1502 | 2.3 | | | | |
| ├ | 7000 | SAOP | 1 | 1501.3 | 1501.8 | 1 | 20.4 | 10.1 | | |
| └ | 930 | BORD | 5 | 1501 | 1501.2 | 1 | 38.0 | 1.0 | | |
| | 2800 | OTTA | 1 | 1506 | 1508 | 6 | 1.8 | 0.9 | | |
| ┌ | 8800 | SGMR | 1 | 1534.8 | 1535.2 | 2.6 | 8.0 | 1.6 | | |
| ├ | 4995 | SGMR | 1 | 1534.9 | 1535.2 | 2.9 | 2.8 | .6 | | |
| ├ | 2695 | SGMR | 1 | 1534.9 | 1535.2 | 2.9 | 6.2 | 1.2 | | |
| └ | 2800 | OTTA | 8 | 1535 | 1535.3 | .5 | 4.6 | 2.3 | | |
| | 2800 | OTTA | 26 | 1600 | 1610 | 10 | -1.2 | -0.6 | | |
| ┌ | 2800 | OTTA | 21 | 1610 | 1645 | 210 | 5.6 | 2.8 | | |
| ├ | 606 | SGMR | 20 | 1622.3 | 1625.8 | 36 | 3.2 | 1.9 | | |
| ├ | 15400 | SGMR | 20 | 1623.9 | 1635.3 | 34.3 | 22.6 | 13.6 | | |
| ├ | 4995 | SGMR | 20 | 1623.9 | 1625.3 | 37.1 | 8.0 | 4.8 | | |
| ├ | 1420 | BOUL | 8 | 1623.5 | 1626 | 4 | 6.0 | 2.0 | | |
| ├ | 2800 | OTTA | 2 | 1624 | 1625.5 | 3 | 9.2 | 4.6 | | |
| ├ | 2695 | BOUL | 8 | 1624.5 | 1626.5 | 3.5 | 10.0 | 3.0 | | |
| ├ | 2695 | SGMR | 20 | 1624 | 1625.3 | 41.4 | 10.5 | 6.3 | | |
| ├ | 1415 | SGMR | 20 | 1624.1 | 1625.6 | 34.9 | 8.7 | 5.2 | | |
| ├ | 9400 | HUAN | 20 | 1625.6 | 1634.3 | 31.8 | 13.1 | 4.8 | | |
| └ | 8800 | SGMR | 20 | 1625 | 1635.5 | 24.1 | 18.0 | 10.8 | | |
| | 100 | HIRA | 45 | 2106 | 2106.5 | 1.5 | 130.0 | 40.0 | | |
| 15 | 3750 | TYKW | 5 | 0310 | 0324 | 25 | 2.0 | 1.0 | | |
| ├ | 9400 | TYKW | 5 | 0315 | 0330 | 45 | 3.0 | 1.0 | | |
| └ | 2000 | TYKW | 5 | 0320 | 0324.7 | 12 | 2.0 | 0.7 | | |
| | 260 | ONDR | 5 | 0757.5 | 0757.5 | .5 | 20.0 | | | |
| ┌ | 9500 | BERL | 4 | 0807 | 0816 | 104 | 124.0 | 11.0 | | |
| ├ | 4995 | MANI | 4 | 0807.8 | 0816 | 12.9 | 275.0 | 42.3 | | |
| ├ | 4995 | ATHN | 4 | 0807.7 | 0814.9 | 9.9 | 160.7 | 48.2 | | |
| ├ | 3000 | BERL | 4 | 0807 | 0816.5 | 128 | 101.0 | 10.0 | | |
| ├ | 9100 | GORK | 28 | 0808 | 0808 | 7 | 14.0 | 6.2 | | |
| ├ | 8800 | ATHN | 4 | 0808.3 | 0814.9 | 8.4 | 177.7 | 53.3 | | |
| ├ | 3100 | CRIM | 3 | 0809 | 0815 | 95 | 163.0 | 54.0 | | |
| ├ | 1470 | BERL | 4 | 0810 | 0816.4 | 125 | 58.0 | 8.6 | | |
| ├ | 2695 | MANI | 4 | 0811.6 | 0816 | 10.4 | 130.0 | 30.9 | | |
| ├ | 2695 | ATHN | 3 | 0811.6 | 0814.9 | 6 | 127.7 | 38.3 | | |
| ├ | 1415 | MANI | 4 | 0812.6 | 0815.9 | 9.9 | 49.0 | 17.1 | | |
| ├ | 8800 | MANI | 4 | 0813.9 | 0816 | 6.8 | 140.0 | 43.2 | | |
| ├ | 1415 | ATHN | 3 | 0813 | 0815 | 4.7 | 43.7 | 13.1 | | |

# SOLAR RADIO EMISSION
## OUTSTANDING OCCURRENCES

### OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 930 | BORD | 5 | 0813 | 0816 | 8 | 16.0 | 6.0 | | |
| | 808 | ONDR | 45 | 0813 | 0814.5 | 7 | 60.0 | | | |
| | 606 | MANI | 2 | 0814.6 | 0817.5 | 5.6 | 5.6 | 1.1 | | |
| | 260 | ONDR | 45 | 0814.5 | 0814.5 | 1 | 15.0 | | | |
| | 9100 | GORK | 3 | 0815 | 0815.5 | 2.5 | 59.0 | 29.0 | | |
| | 8800 | ATHN | 29 | 0816.7 | 0816.7 | 18.5 | 31.0 | 9.3 | | |
| | 9100 | GORK | 29 | 0817.5 | 0817.5 | 27.5 | 31.0 | 6.2 | | |
| | 4995 | ATHN | 29 | 0817.6 | 0817.6 | 18.2 | 31.2 | 9.4 | | |
| | 2695 | ATHN | 29 | 0817.6 | 0817.6 | 16.6 | 24.7 | 7.4 | | |
| | 1415 | ATHN | 29 | 0817.7 | 0817.7 | 15.6 | 13.4 | 4.0 | | |
| | 3100 | CRIM | 1 | 0926 | 0927 | 2 | 3.0 | 1.0 | | |
| | 260 | ONDR | 45 | 0945.5 | 0947.5 | 2.5 | 15.0 | | | |
| | 207 | IZMI | 48 | 1050.5 | 1051.5 | 2.8 | 3400.0 | 1280.0 | | |
| | 550 | KIEV | 41 | 1113.5 | 1119.7 | 8 | 103.0 | | | |
| | 9240 | ARCE | 20 | 1226.6 | 1227.1 | 24 | | | | |
| | 7000 | SAOP | 1 | 1227.9 | 1228.1 | .4 | 11.4 | 5.7 | | |
| | 1470 | BERL | 3 | 1228 | 1233.2 | 16 | 6.4 | 2.2 | | |
| | 3100 | CRIM | 3 | 1229 | 1233 | 12 | 7.0 | 2.0 | | |
| | 9500 | BERL | 20 | 1230 | 1239 | 16 | 6.6 | | | |
| | 4995 | SGMR | 20 | 1230.6 | 1233 | 27.9 | 10.1 | 3.0 | | |
| | 3000 | BERL | 1 | 1230 | 1233 | 13 | 4.4 | 1.5 | | |
| | 2800 | OTTA | 21 | 1230 | 1238 | 20 | 2.0 | 1.0 | | |
| | 8800 | SGMR | 20 | 1231.3 | 1236.2 | 27.6 | 10.9 | 3.3 | | |
| | 2800 | OTTA | 2 | 1231.8 | 1233 | 4 | 5.2 | 1.5 | | |
| | 2695 | SGMR | 20 | 1231.4 | 1233 | 17.7 | 7.0 | 2.1 | | |
| | 1420 | ARCE | 20 | 1231.9 | 1232.7 | 10.4 | | | | |
| | 1415 | SGMR | 20 | 1231.4 | 1233 | 11.7 | 5.4 | 1.6 | | |
| | 7000 | SAOP | 20 | 1235.5 | | 3.8 | 7.6 | | | |
| | 7000 | SAOP | 20 | 1239.3 | | 7 | 7.6 | | | |
| | 550 | KIEV | 41 | 1321.5 | 1321.7 | 5.7 | 36.0 | | | |
| | 9400 | HUAN | 45 | 1323.7 | 1325.2 | 3.6 | 377.6 | 193.1 | | |
| | 9400 | HUAN | | 1323.7 | 1325.5 | | 716.6 | | | |
| | 8800 | SGMR | 47 | 1323.7 | 1325.6 | 7.3 | 1063.0 | 318.9 | | |
| | 7000 | SAOP | 3 | 1323.3 | | 6.9 | 365.9D | | | SATURATED |
| | 4995 | SGMR | 47 | 1323.1 | 1325.6 | 7.7 | 634.0 | 190.2 | | |
| | 4995 | ATHN | 47 | 1323.4 | 1325.7 | 24.3 | 576.0U | 173.0U | | |
| | 2695 | SGMR | 4 | 1323.6 | 1326.1 | 8.1 | 235.8 | 70.7 | | |
| | 15400 | SGMR | 47 | 1324.2 | 1325 | 6.8 | 630.0 | 189.0 | | |
| | 9500 | BERL | 3 | 1324.2 | 1325.5 | 73 | 852.0 | 83.0 | | |
| | 9240 | ARCE | 3 | 1324.6 | 1325.7 | 6.9 | | | | |
| | 8800 | ATHN | 47 | 1324.3 | 1325.7 | 22.6 | 790.0U | 237.0U | | |
| | 3000 | BERL | 3 | 1324.7 | 1325.8 | 78 | 332.0 | 87.0 | | |
| | 2695 | ATHN | 4 | 1324.6 | 1326 | 17.2 | 210.0U | 63.0U | | |
| | 1470 | BERL | 3 | 1324.7 | 1326.3 | 62 | 63.0 | 8.6 | | |
| | 1415 | SGMR | 4 | 1324.1 | 1325.7 | 8.9 | 80.4 | 24.1 | | |
| | 1415 | ATHN | 46 | 1324.3 | 1326.2 | 36.7 | 49.7U | 15.0U | | |
| | 1415 | ATHN | 46 | | 1326.9 | | 49.7U | | | |
| | 606 | SGMR | 4 | 1324 | 1324.1 | 1.8 | 82.2 | 24.7 | | |
| | 2800 | OTTA | 3 | 1325 | 1326 | 7 | 224.0 | 68.0 | | |
| | 1420 | ARCE | 4 | 1325 | 1326.7 | 4.8 | | | | |
| | 930 | BORD | 45 | 1325 | 1326 | 9 | 312.0 | 6.0 | | |
| | 808 | ONDR | 45 | 1325.5 | 1325.5 | 2.5 | 210.0 | | | |
| | 536 | ONDR | 45 | 1325 | 1326.5 | 2.5 | 35.0 | | | |
| | 9400 | HUAN | 29 | 1327.3 | 1327.3 | 44 | 48.2 | 17.9 | | |
| | 7000 | SAOP | 30 | 1330.2 | | 64.8 | | | | |
| | 7000 | SAOP | 29 | 1330.2 | | 64.8 | | | | |
| | 4995 | SGMR | 30 | 1330.8 | 1330.8 | 115.2 | 29.4 | 17.6 | | |
| | 1420 | ARCE | 29 | 1330.2 | | 28 U | | | | |
| | 15400 | SGMR | 29 | 1331 | 1331 | 53.6 | 21.3 | 12.8 | | |
| | 9240 | ARCE | 29 | 1331.5 | | 66 D | | | | |
| | 8800 | SGMR | 30 | 1331 | 1331 | 43.1 | 29.6 | 17.8 | | |
| | 2695 | SGMR | 30 | 1331.7 | 1331.7 | 103.4 | 16.2 | 9.7 | | |
| | 2800 | OTTA | 29 | 1332 | 1332 | 82 | 20.0 | 10.0 | | |
| | 1415 | SGMR | 29 | 1333 | 1333 | 79.1 | 7.2 | 4.3 | | |
| | 8800 | SGMR | 4 | 1336.8 | 1337.2 | 1.9 | 14.0 | 4.2 | | |
| | 7000 | SAOP | 4 | 1336.9 | 1337.5 | 2.3 | 23.0 | 11.4 | | |
| | 4995 | SGMR | 2 | 1337 | 1337.4 | 1.5 | 8.7 | 2.6 | | |
| | 2695 | SGMR | 2 | 1337.2 | 1337.4 | 1.9 | 3.3 | 1.0 | | |
| | 2800 | OTTA | 20 | 1628 | 1636 | 47 | 2.2 | 1.1 | | |
| | 2695 | BOUL | 8 | 1713 | 1713.5 | 2 | 5.0 | 2.0 | | |
| | 2695 | BOUL | 3 | 1717.5 | 1718.5 | 2.5 | 3.0 | 1.0 | | |
| | 2800 | OTTA | 27F | 1722 | | 62 | 1.6 | 1.5 | | |
| | 2800 | OTTA | 24 | 1722 | 1725 | 3 | 1.6 | 0.8 | | |
| | 2800 | OTTA | 24P | 1725 | | 55 | 1.6 | | | |
| | 2800 | OTTA | 26 | 1820 | 1824 | 4 | 1.6 | 0.8 | | |
| | 2800 | OTTA | 20 | 1845 | 1853 | 45 | 2.8 | 1.4 | | |
| | 8800 | SGMR | 22 | 1849.7 | 1853.7 | 16.7 | 12.2 | 3.7 | | |
| | 4995 | SGMR | 22 | 1849.6 | 1853.6 | 18.4 | 5.2 | 1.6 | | |
| | 2695 | SGMR | 2 | 1849.6 | 1853.6 | 9.9 | 5.8 | 1.7 | | |
| | 2695 | SGMR | 20 | 1939.6 | 1947.4 | 32.4 | 2.9 | 1.7 | | |
| | 2800 | OTTA | 20 | 1940 | 1942 | 51 | 3.2 | 1.6 | | |
| | 15400 | SGMR | 3 | 2010.3 | 2011.7 | 3.6 | 11.6 | 3.5 | | |
| | 8800 | SGMR | 3 | 2011.1 | 2011.3 | 4.2 | 26.5 | 7.8 | | |
| | 8800 | PALE | 4 | 2011 | 2011.7 | 5 | 26.0 | 7.7 | | |
| | 4995 | SGMR | 3 | 2011.7 | 2011.5 | 1.4 | 12.0 | 3.6 | | |
| | 2800 | OTTA | 32 | 2058 | 2125 | 80 | -2.4 | -1.2 | | |
| 16 | 9400 | TYKW | 5 | 0003 | 0003.9 | 3 | 40.0 | 8.0 | | |
| | 8800 | PALE | 4 | 0003 | 0003.8 | 4.6 | 46.0 | 14.0 | | |
| | 3750 | TYKW | 45 | 0020 | 0032.9 | 150 | 26.0 | 3.0 | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 3750 | TYKW | | 0020 | 0156 | | 10.0 | | | |
| | 9400 | TYKW | 45 | 0025 | 0156 | 120 | 10.0 | 3.0 | | |
| | 9400 | TYKW | | 0025 | 0036 | | 5.0 | | | |
| | 1415 | MANI | 2 | 0030.7 | 0033.4 | 3.7 | 5.6 | 1.5 | | |
| | 606 | MANI | 4 | 0030.7 | 0032.9 | 3.9 | 34.3 | 7.8 | | |
| | 4995 | MANI | 4 | 0031.3U | 0033.4U | 3.1U | 12.0U | 4.6U | | WX |
| | 2695 | MANI | 4 | 0031.3 | 0032.9 | 3.1 | 19.4 | 9.7 | | |
| | 2000 | TYKW | 45 | 0031 | 0033.3 | 25 | 15.0 | 3.0 | | |
| | 1415 | PALE | 4 | 0031.2 | 0033.3 | 16.1 | 7.1 | 2.1 | | |
| | 1000 | TYKW | 45 | 0031 | 0032.9 | 15 | 14.0 | 2.0 | | |
| | 2930 | VORO | 4 | 0032 | 0034 | 18 | 20.0 | | | |
| | 2000 | TYKW | 45 | 0115 | 0142.2 | 90 | 8.0 | 2.0U | | |
| | 6100 | KISV | 1 | 0646 | 0648.8 | 29 | 5.0 | | | |
| | 6100 | KISV | 24 | 0720 | 0735 | 72 | 4.0 | | | |
| | 6100 | KISV | 20 | 0833 | 0948 | 130 | 14.0 | | | |
| | 3100 | CRIM | 20 | 0839 | 0907 | 98 | 6.0 | 2.0 | | |
| | 9100 | GORK | 20 | 0848 | 0946 | | 10.2 | | | |
| | 9240 | ARCE | 21 | 1240.6 | 1307.9 | 124 | | | | |
| | 8800 | ATHN | 4 | 1256.6 | 1302.8 | 8.1 | 85.8 | 25.7 | | |
| | 4995 | ATHN | 45 | 1256.7 | 1301.9 | 8.1 | 108.1 | 32.4 | | |
| | 4995 | ATHN | 45 | | 1302.8 | | 108.1 | | | |
| | 2695 | ATHN | 4 | 1257.8 | 1302.8 | 7.3 | 67.2 | 20.1 | | |
| | 7000 | SAOP | 45 | 1258.2 | 1303 | 12.5 | 154.5 | 57.6 | | |
| | 4995 | SGMR | 46 | 1258.2 | 1302 | 31.7 | 69.3 | 20.8 | | |
| | 4995 | SGMR | 46 | | 1302.9 | | 68.5 | | | |
| | 3000 | BERL | 4 | 1258.5 | 1303 | 32 | 71.0 | 14.0 | | |
| | 2800 | OTTA | 21 | 1258 | 1405 | 140 | 4.4 | 2.2 | | |
| | 2800 | OTTA | 46 | 1258 | 1303 | 32 | 79.0 | 16.0 | | |
| | 2800 | OTTA | | 1258 | 1303 | 8 | 79.0 | | | |
| | 2800 | OTTA | | 1306 | 1307 | 24 | 40.0 | | | |
| | 1415 | ATHN | 4 | 1258.8 | 1302.8 | 17 | 7.0 | 2.1 | | |
| | 9500 | BERL | 46 | 1259 | 1303 | 14 | 55.0 | 13.0 | | |
| | 9400 | HUAN | | 1259.5 | | 25.9 | | | | |
| | 8800 | SGMR | 46 | 1259.7 | 1301.3 | 30.6 | 27.1 | 15.0 | | |
| | 8800 | SGMR | 46 | | 1302.8 | | 50.0 | | | |
| | 3100 | CRIM | 3 | 1259 | 1303 | 15 D | 83.0D | | | |
| | 2695 | SGMR | 46 | 1259.6 | 1301.8 | 31 | 51.3 | 18.2 | | |
| | 2695 | SGMR | 46 | | 1302.9 | | 60.8 | | | |
| | 1470 | BERL | 4 | 1259 | 1304 | 24 | 10.0 | 3.4 | | |
| | 1420 | ARCE | 22 | 1259.4 | 1303.9 | 21 | | | | |
| | 1415 | SGMR | 22 | 1259.2 | 1303.9 | 36.1 | 9.3 | 5.6 | | |
| | 9240 | ARCE | 4 | 1301 | 1303 | 5 | | | | |
| | 8800 | ATHN | 30 | 1304.7 | 1304.7 | 19 | 14.0 | 4.2 | | |
| | 4995 | ATHN | 30 | 1304.8 | 1304.8 | 22.8 | 11.8 | 3.5 | | |
| | 8800 | ATHN | 4 | 1305.9 | 1307 | 2.9 | 17.5 | 5.3 | | |
| | 4995 | ATHN | 4 | 1305.9 | 1306.9 | 1.9 | 19.3 | 5.8 | | |
| | 2695 | ATHN | 30 | 1305.1 | 1305.1 | 16.8 | 16.8 | 5.0 | | |
| | 2695 | ATHN | 4 | 1305.9 | 1307 | 3.8 | 15.6 | 4.7 | | |
| | 7000 | SAOP | 29 | 1310.7 | | 22.8U | | | | |
| | 2800 | OTTA | 20 | 1817 | 1819 | 23 | 1.4 | 0.7 | | |
| | 2800 | OTTA | 21 | 1843 | 1845 | 16 | 3.0 | 1.5 | | |
| | 2695 | SGMR | 20 | 1843.2 | 1844.9 | 16 | 4.5 | 1.4 | | |
| | 1415 | PALE | 4 | 1843.8 | 1844.6 | 2.5 | 11.0 | 3.3 | | |
| | 606 | SGMR | 2 | 1843.4 | 1844.3 | 1.4 | 3.0 | .9 | | |
| | 1420 | BOUL | 8 | 1844 | 1844.5 | 3 | 7.0 | 2.0 | | |
| | 1415 | SGMR | 2 | 1844.2 | 1844.6 | 1.6 | 9.7 | 2.9 | | |
| | 2800 | OTTA | 8 | 1845 | 1845 | | 4.6 | | | |
| | 2800 | OTTA | 20 | 1920 | 2055 | 150 | 2.8 | 1.4 | | |
| | 200 | HIRA | 45 | 2310.2 | 2310.5 | 1 | 200.0 | 40.0 | | |
| | 100 | HIRA | 45 | 2310.3 | 2310.5U | 1.3 | 95.0D | 60.0D | | |
| 17 | 3750 | TYKW | 5 | 0400 | 0416.5 | 90 | 13.0 | 5.0 | | |
| | 2000 | TYKW | 5 | 0400 | 0417 | 90 | 8.0 | 3.0 | | |
| | 9400 | TYKW | 5 | 0412 | 0421 | 70 | 10.0 | 5.0 | | |
| | 8800 | ATHN | 4 | 0436.3 | 0439.2 | 5 | 273.9U | 82.2U | | |
| | 4995 | ATHN | 46 | 0436.2 | 0436.8 | 5 | 255.3U | 76.6U | | |
| | 4995 | ATHN | 46 | | 0439.2 | | 241.3U | | | |
| | 2695 | ATHN | 46 | 0436.2 | 0436.7 | 5 | 202.8U | 60.8U | | |
| | 2695 | ATHN | 46 | | 0439.2 | | 132.6U | | | |
| | 1415 | ATHN | 46 | 0436.2 | 0436.7 | 5.1 | 184.9U | 55.5U | | |
| | 1415 | ATHN | 46 | | 0439.2 | | 124.6U | | | |
| | 29 | UPIC | 45 | 0633.5 | 0635 | 2 | | | | |
| | 260 | ONDR | 5 | 0750.5 | 0750.5 | .5 | 15.0 | | | |
| | 221 | ABST | 6 | 0750.2 | 0750.5 | .5 | 48.0 | | | |
| | 207 | IZMI | 6 | 0750.3 | 0750.5 | .8 | 370.0 | 90.0 | | |
| | 113 | POTS | 41 | 0750.2 | 0750.8 | 8.4 | 350.0 | 7.0 | | |
| | 29 | UPIC | 5 | 0750.5 | 0751 | 1 | | | | |
| | 260 | ONDR | 5 | 0758.5 | 0758.5 | .5 | 15.0 | | | |
| | 930 | BORD | 40 | 0853 | 0855.5 | 3 | 9.0 | 2.0 | | |
| | 100 | GORK | 41 | 0925.2 | 0925.6 | 1.5 | 30.0 | | | |
| | 100 | GORK | | 0925.2 | 0926.2 | | 30.0 | | | |
| | 100 | GORK | 41 | 1209.5 | 1210.2 | 1.3 | 50.0 | | | |
| | 100 | GORK | | 1209.5 | 1210.4 | | 50.0 | | | |
| | 2800 | OTTA | 1 | 1750.8 | 1751.5 | 2 | 1.2 | 0.6 | | |
| | 2800 | OTTA | 20 | 1906 | 1909 | 10 | 1.0 | 0.5 | | |
| | 2800 | OTTA | 20 | 1955 | 2010 | 35 | 1.2 | 0.6 | | |
| | 2695 | PENT | 20 | 2212 | 2247 | 43 | 1.2 | 0.6 | | |
| 18 | 3750 | TYKW | 45 | 0354 | 0357.8 | 6 | 6.0 | 3.0 | | |
| | 2000 | TYKW | 45 | 0354 | 0356.4 | 6 | 4.0 | 2.0 | | |

# SOLAR RADIO EMISSION
## OUTSTANDING OCCURRENCES

### OCTOBER 1974

| OCT 1974 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 4995 | MANI | 2 | 0355.5 | 0358.2 | 6 | 2.9 | 1.0 | | |
| | 2695 | MANI | 1 | 0355.5 | 0356.4 | 6 | 4.3 | 2.1 | | |
| | 1415 | MANI | 1 | 0355.5 | 0356.6 | 6 | 2.0 | 1.0 | | |
| | 3750 | TYKW | 29 | 0400 | | 120 | 2.0 | 1.0 | | |
| | 2000 | TYKW | 29 | 0400 | | 120 | 2.0 | 1.0 | | |
| | 3100 | CRIM | 24 | 0622 | 0633 | 64 | 8.0 | 3.0 | | |
| | 4995 | MANI | 20 | 0629.3 | 0631.5 | 11.1 | 9.7 | 2.9 | | |
| | 4995 | ATHN | 1 | 0629.9 | 0631.1 | 7.4 | 8.2 | 2.5 | | |
| | 2695 | MANI | 1 | 0629.4 | 0631 | 7.9 | 6.4 | 2.1 | | |
| | 2695 | ATHN | 1 | 0629.9 | 0631.3 | 7.2 | 8.0 | 2.4 | | |
| | 2000 | TYKW | 45 | 0629 | 063n.6 | 11 | 8.0 | 2.0 | | |
| | 1415 | MANI | 2 | 0629 | 0631 | 6.7 | 8.2 | 2.0 | | |
| | 1415 | ATHN | 3 | 0629.6 | 0630.9 | 13.7 | 11.0 | 3.3 | | |
| | 8800 | ATHN | 1 | 0630.4 | 0631.2 | 6.3 | 5.8 | 1.8 | | |
| | 606 | MANI | 2 | 0630.5 | 0630.8 | 1.1 | 3.4 | 1.1 | | |
| | 3100 | CRIM | 26 | 0726 | 0730 | | 3.0 | | | |
| | 260 | ONDR | 45 | 1114 | 1116 | 2.5 | 90.0 | | | |
| | 2800 | OTTA | 20 | 2110 | 2128 | 70 | 2.4 | 1.0 | | |
| | 606 | SGMR | 2 | 2125.3 | 2125.3 | 9.4 | 2.9 | .9 | | |
| | 1415 | SGMR | 2 | 2126.2 | 2128.3 | 7.4 | 3.0 | .9 | | |
| 19 | 2000 | TYKW | 45 | 0044 | 0059 | 145 | 7.0 | 3.0 | | |
| | 2000 | TYKW | | 0044 | 0051.6 | | 5.0 | | | |
| | 3750 | TYKW | 45 | 0045 | 0051.5 | 145 | 7.0 | 3.0 | | |
| | 3750 | TYKW | | 0045 | 0130 | | 7.0 | | | |
| | 4995 | MANI | 20 | 0049.2 | 0051.5 | 21.3 | 7.8 | 2.9 | | |
| | 2695 | MANI | 3 | 0049 | 0051.6 | 19 | 11.0 | 5.0 | | |
| | 3100 | CRIM | 20 | 0612 | 0757 | 164 | 4.0 | 1.0 | | |
| | 3000 | BERL | 21 | 1102.5 | 1112.5 | 30 | 7.4 | 1.5 | | |
| | 1470 | BERL | 3 | 1108 | 1113 | 12 | 4.9 | 1.5 | | |
| | 260 | ONDR | 5 | 1115 | 1115 | .5 | 15.0 | | | |
| | 260 | ONDR | 5 | 1218.5 | 1218.5 | .5 | 15.0 | | | |
| | 260 | ONDR | 45 | 1227 | 1227 | 1 | 15.0 | | | |
| | 260 | ONDR | 45 | 1237 | 1237 | 1 | 15.0 | | | |
| | 2800 | OTTA | 1 | 1543 | 1544 | 6 | 1.4 | 0.7 | | |
| | 18 | MCMA | 41 | 1712 | 1715 | 3 | | | 1 | |
| | 245 | SGMR | 6 | 2102 | 211n.3 | 28.3 | 14.8 | 4.5 | | |
| | 606 | SGMR | 1 | 2109.4 | 211n.3 | 1.6 | 1.3 | .4 | | |
| | 410 | SGMR | 6 | 2109.7 | 211n.3 | 2.7 | 9.9 | 3.0 | | |
| 20 | 3100 | CRIM | 24 | 0557 | 0714 | | 5.0 | | | |
| | 260 | ONDR | 45 | 0827 | 0827.5 | 2 | 50.0 | | | |
| | 207 | IZMI | 6 | 0827.5 | 0827.5 | .5 | 370.0 | 120.0 | | |
| | 200 | GORK | 6 | 0827.9 | 0828.1 | .5 | | | | |
| | 113 | POTS | 45 | 0827.4 | 0827.9 | .3 | 100.0 | 25.0 | | |
| | 260 | ONDR | 45 | 1158 | 1159 | 2 | 100.0 | | | |
| | 234 | POTS | 45 | 1159 | 1159.1 | .5 | 100.0 | 10.0 | | |
| | 18 | MCMA | 6 | 1452 | 1453 | 2 | | | 1 | |
| | 18 | MCMA | 6 | 1521 | 1523 | 3 | | | 1 | |
| | 18 | MCMA | 6 | 1710 | 1712 | 3 | | | 1 | |
| | 200 | HIRA | 45 | 2140.8 | 2141 | 2 | 100.0 | 20.0 | | |
| 21 | 188 | KIEV | 48 | 0700 E | 0722.5 | 69 | 74.0 | | | |
| 22 | 207 | IZMI | 48 | 1017 | 1028.5 | 22 | 1440.0 | 500.0 | | |
| | 930 | BORD | 40 | 1232 | 1232.8 | 1 | 14.0 | 2.0 | | |
| 23 | 3100 | CRIM | 20 | 0645 | 0911 | 152 | 5.0 | 2.0 | | |
| | 2800 | OTTA | 2 | 1326.1 | 1327 | 2 | 4.4 | 2.2 | | |
| | 18 | MCMA | 42 | 1700 | 1712 | 14 | | | 1 | |
| | 100 | HIRA | 45 | 2056.7 | 2057.4 | 1 | 260.0 | 100.0 | | |
| 24 | 3100 | CRIM | 24 | 0605 | 0737 | | 6.0 | | | |
| | 18 | MCMA | 6 | 1730 | 1733 | 4 | | | 1 | |
| 25 | 3100 | CRIM | 20 | 0700 | 0722 | 30 | 4.0 | 1.0 | | |
| | 18 | MCMA | 41 | 1732 | 1737 | 7 | | | 2 | |
| 26 | 18 | MCMA | 6 | 1939 | 1940 | 2 | | | 1 | |
| 27 | 930 | BORD | 40 | 1227 | 1227 | 2 | 12.0 | 2.0 | | |
| | 18 | MCMA | 41 | 1709 | 1710 | 7 | | | 1 | |
| 28 | 3100 | CRIM | 24 | 0635 | 0827 | | 4.0 | | | |
| | 260 | ONDR | 5 | 1028 | 1028 | .5 | 20.0 | | | |
| | 260 | ONDR | 45 | 1101.5 | 1101.5 | 4.5 | 20.0 | | | |
| | 260 | ONDR | 45 | 1117.5 | 1132 | 15.5 | 15.0 | | | |
| | 18 | MCMA | 6 | 1534 | 1535 | 2 | | | 2 | |
| 29 | 18 | MCMA | 6 | 1312 | 1314 | 3 | | | 1 | |
| | 18 | MCMA | 6 | 1337 | 1338 | 2 | | | 1 | |
| | 18 | BOUL | 6 | 2104 | 2108 | 5 | | | 2 | |
| | 18 | BOUL | 6 | 2111 | 2115 | 6 | | | 2 | |
| 31 | 18 | MCMA | 41 | 1330 | 1332 | 3 | | | 1 | |
| | 2800 | OTTA | 21 | 1540 | 1610 | 315 | 8.0 | 3.0 | | |
| | 9400 | HUAN | 20 | 1542.2 | 1611.7 | 101.6 | 37.5 | 17.4 | | |
| | 4995 | SGMR | 22 | 1542.9 | 1546.2 | 48.6 | 20.0 | 6.0 | | |
| | 2695 | BOUL | 45 | 1542 | 1546.5 | 20.5 | 30.0 | 9.0 | | |
| | 2695 | SGMR | 4 | 1542.4 | 1545.6 | 42.7 | 26.9 | 8.1 | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## OCTOBER 1974

| OCT 1974 | FREQUENCY STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 31 | 1415 SGMR | 4 | 1542 | 1546.1 | 7.3 | 21.2 | 6.4 | | |
| | 606 SGMR | 22 | 1542.8 | 1547.4 | 21.5 | 6.6 | 2.0 | | |
| | 15400 SGMR | 20 | 1543.4 | 1608.5 | 44.8 | 39.2 | 11.8 | | |
| | 8800 SGMR | 20 | 1543.3 | 1550.2 | 47.7 | 15.2 | 4.6 | | |
| | 4995 BOUL | 45 | 1543.5 | 1545.5 | 11.5 | 22.0 | 6.0 | | |
| | 2800 OTTA | 46 | 1543 | 1546 | 20 | 29.0 | 12.0 | | |
| | 1420 BOUL | 45 | 1543 | 1545.5 | 20.5 | 12.0 | 2.0 | | |
| | 410 SGMR | 6 | 1546.3 | 1549.5 | 5.3 | 7.8 | 2.3 | | |
| | 245 SGMR | 41 | 1546.5 | 1548.6 | 22.9 | 10.8 | 3.2 | | |

Observatories:

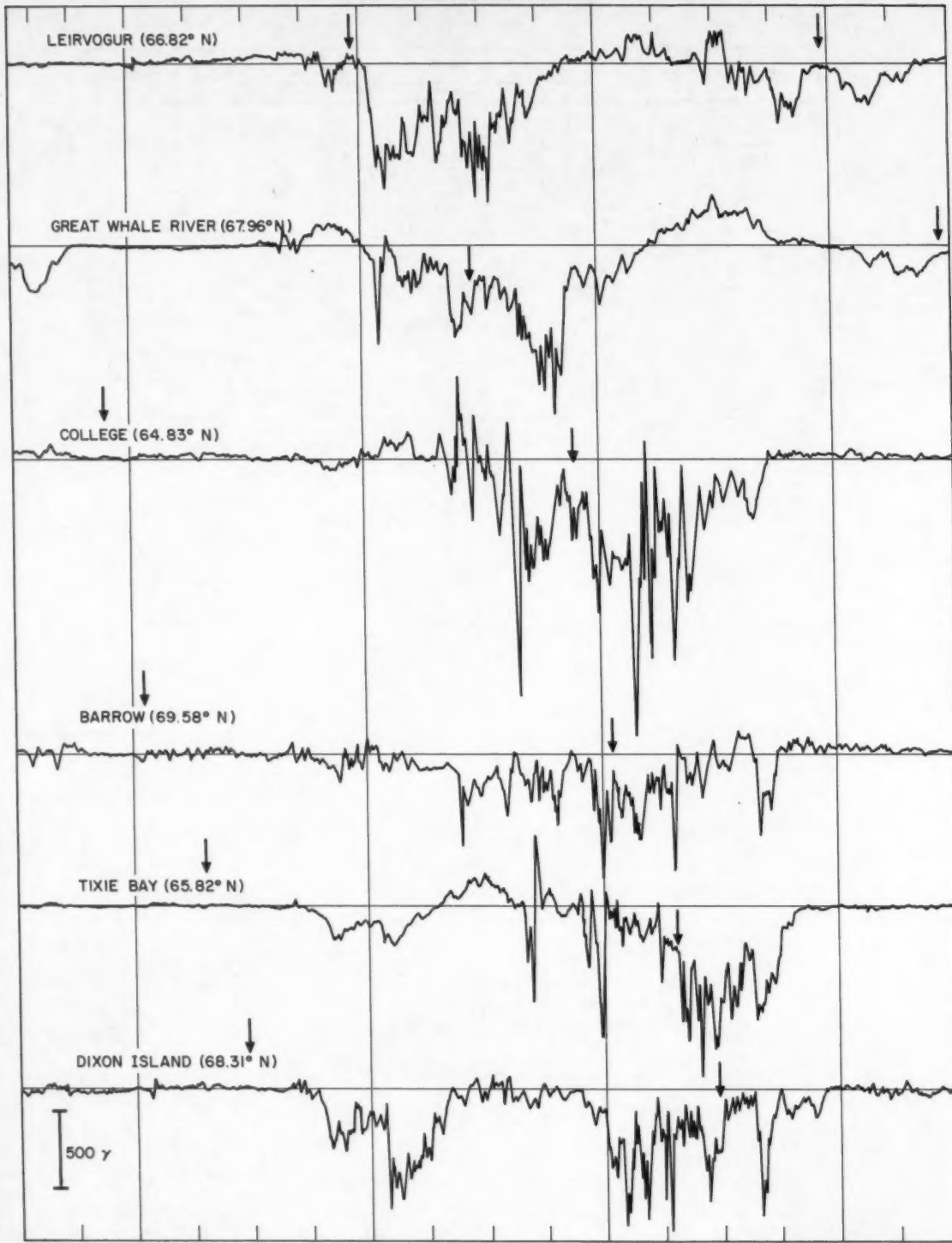
ABST = Abastumani
ARCE = Arcetri
BERL = Berlin-Adlershof
BERN = Berne
BORD = Bordeaux
BOUL = Boulder
CANR = Canary Islands
CRIM = Simferopol
CRON = Carnarvon
DWIN = Dwingeloo
GORK = Gorky
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = Moscow IZMIRAN
KIEV = Kiev
KISV = Kislovodsk
MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov
OTTA = Ottawa ARO
PENN = Penn. State Univ.
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
SLOU = Slough
TRST = Trieste
TYKW = Toyokawa
UPIC = Upice
VORO = Voroshilov

Explanation of Type Code:

1 Simple 1
2 Simple 1F
3 Simple 2
4 Simple 2F
5 Simple
6 Minor
7 Minor +
8 Spike
20 Simple 3
21 Simple 3A
22 Simple 3F
23 Simple 3AF
24 Rise
25 Rise A
26 Fall
27 Rise and Fall
28 Precursor
29 Post Burst Increase
30 Post Burst Increase A
31 Post Burst Decrease
32 Absorption
40 Fluctuation
41 Group of Bursts
42 Series of Bursts
43 Onset of Noise Storm
44 Noise storm in Progress
45 Complex
46 Complex F
47 Great Burst
48 Major
49 Major +

# H-COMPONENT MAGNETOGRAMS OF GEOMAGNETIC STORMS

OCTOBER 12-14, 1974

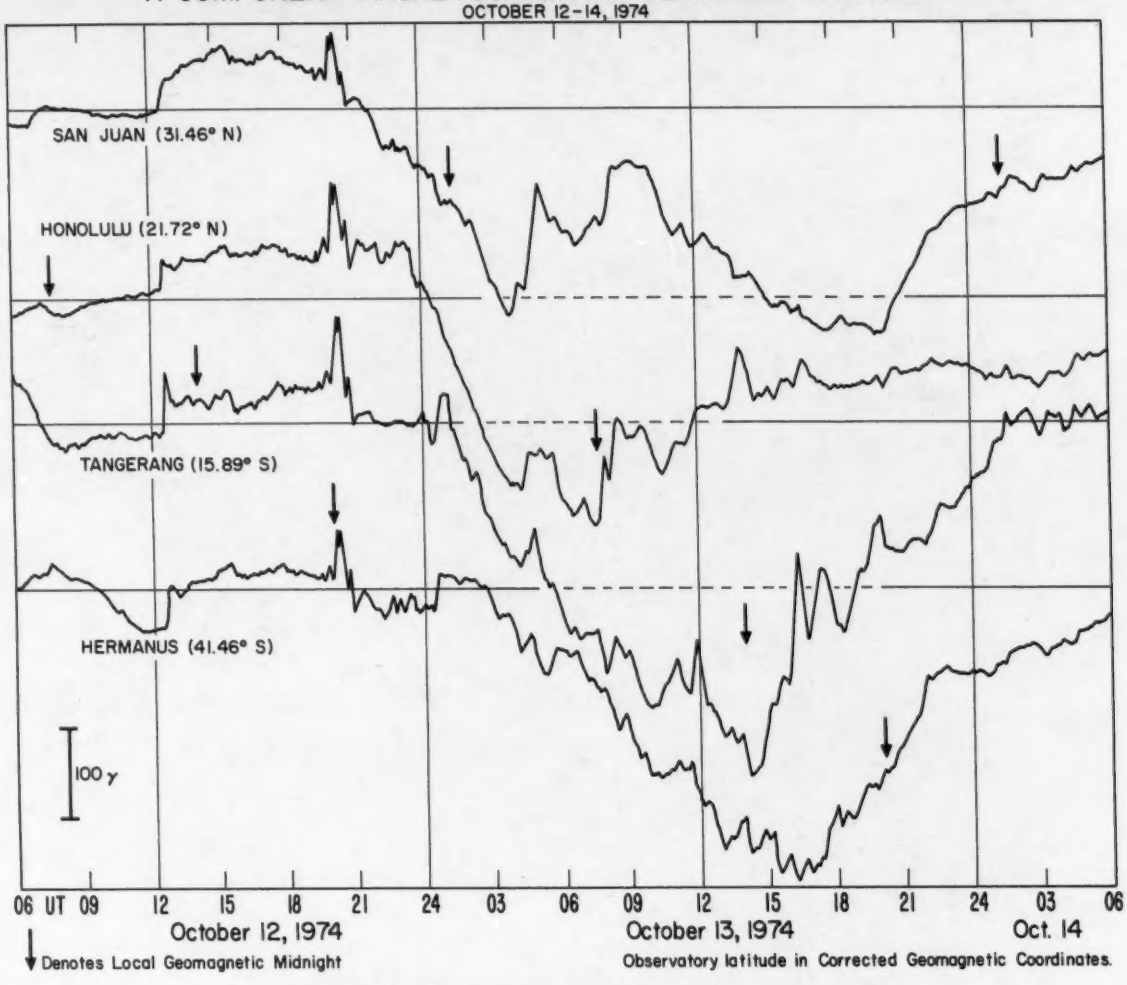

LEIRVOGUR (66.82° N)
GREAT WHALE RIVER (67.96° N)
COLLEGE (64.83° N)
BARROW (69.58° N)
TIXIE BAY (65.82° N)
DIXON ISLAND (68.31° N)
500 γ
06 UT 09 12 15 18 21 24 03 06 09 12 15 18 21 24 03 06
October 12, 1974
October 13, 1974
Oct. 14

Denotes Local Geomagnetic Midnight

Observatory latitude in Corrected Geomagnetic Coordinates.

# H-COMPONENT MAGNETOGRAMS OF GEOMAGNETIC STORMS

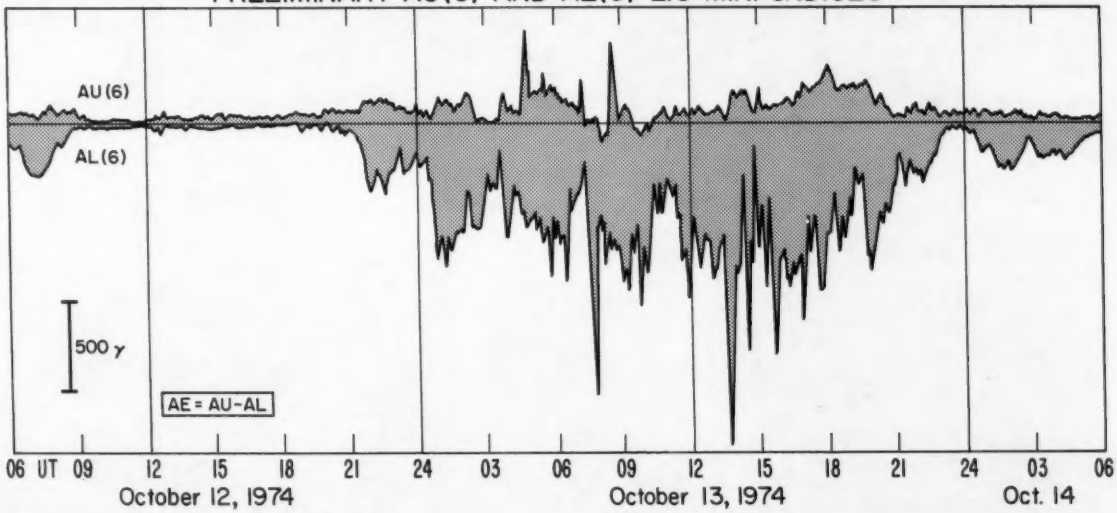
OCTOBER 12-14, 1974




↓ Denotes Local Geomagnetic Midnight

Observatory latitude in Corrected Geomagnetic Coordinates.

## PRELIMINARY AU(6) AND AL(6) 2.5-MIN. INDICES



SGD 368 Part II (Comprehensive)

SEPTEMBER 1974 DATA

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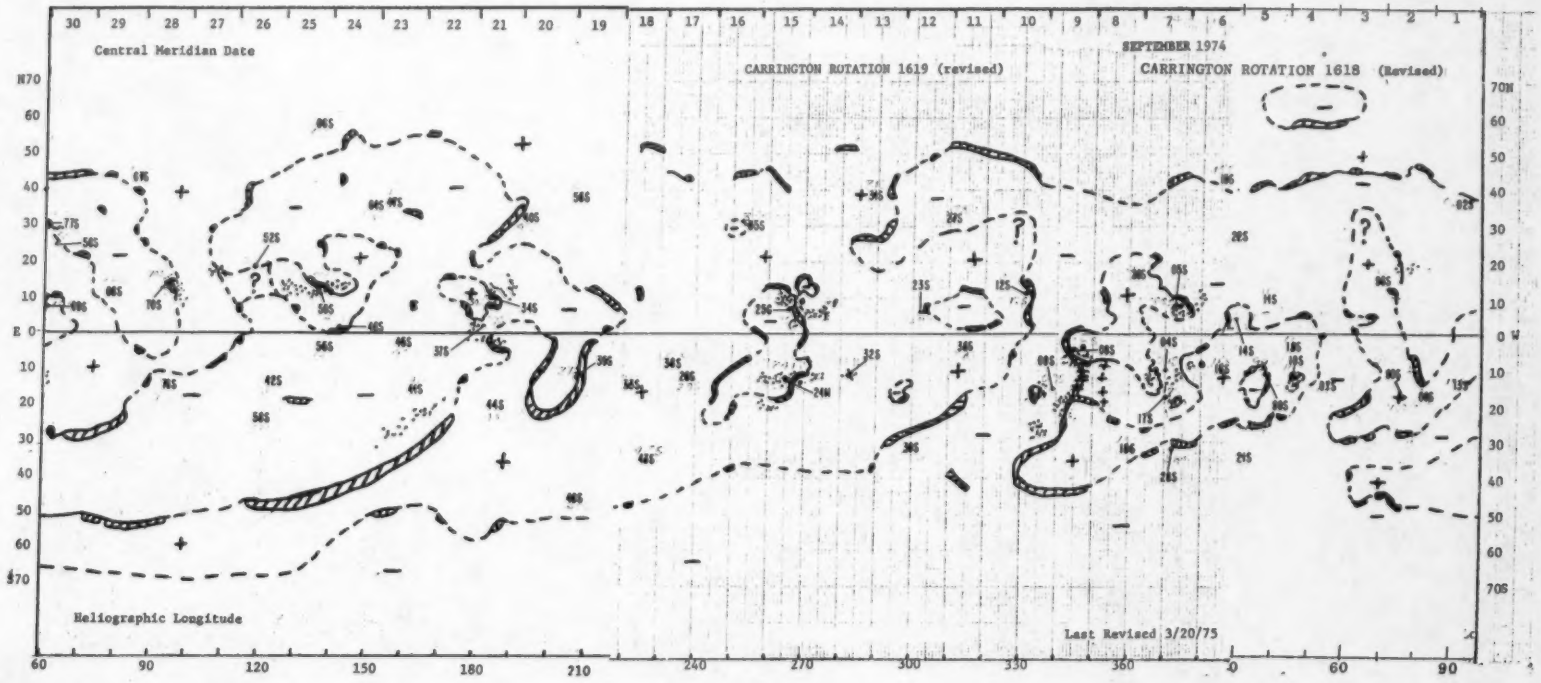
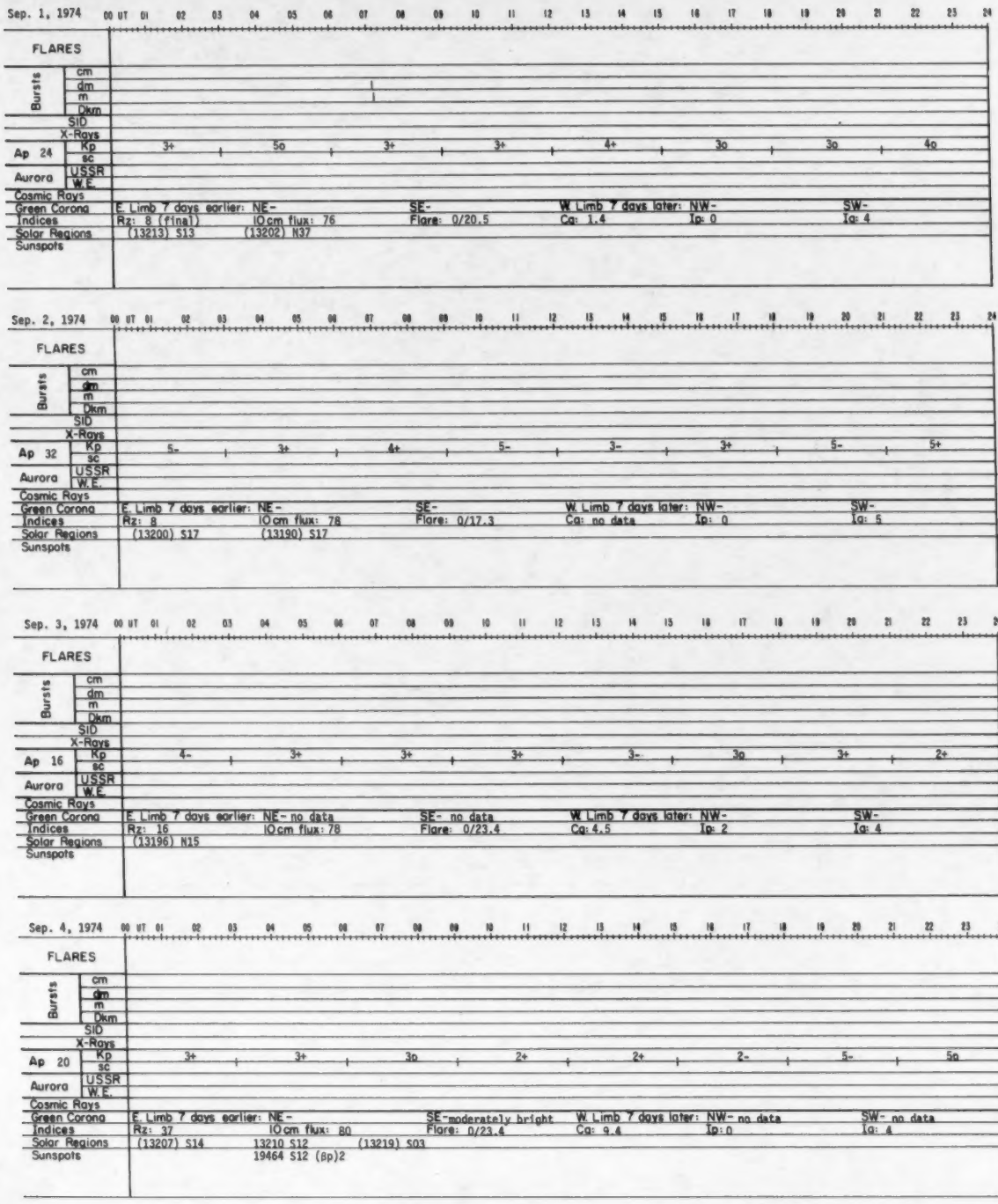
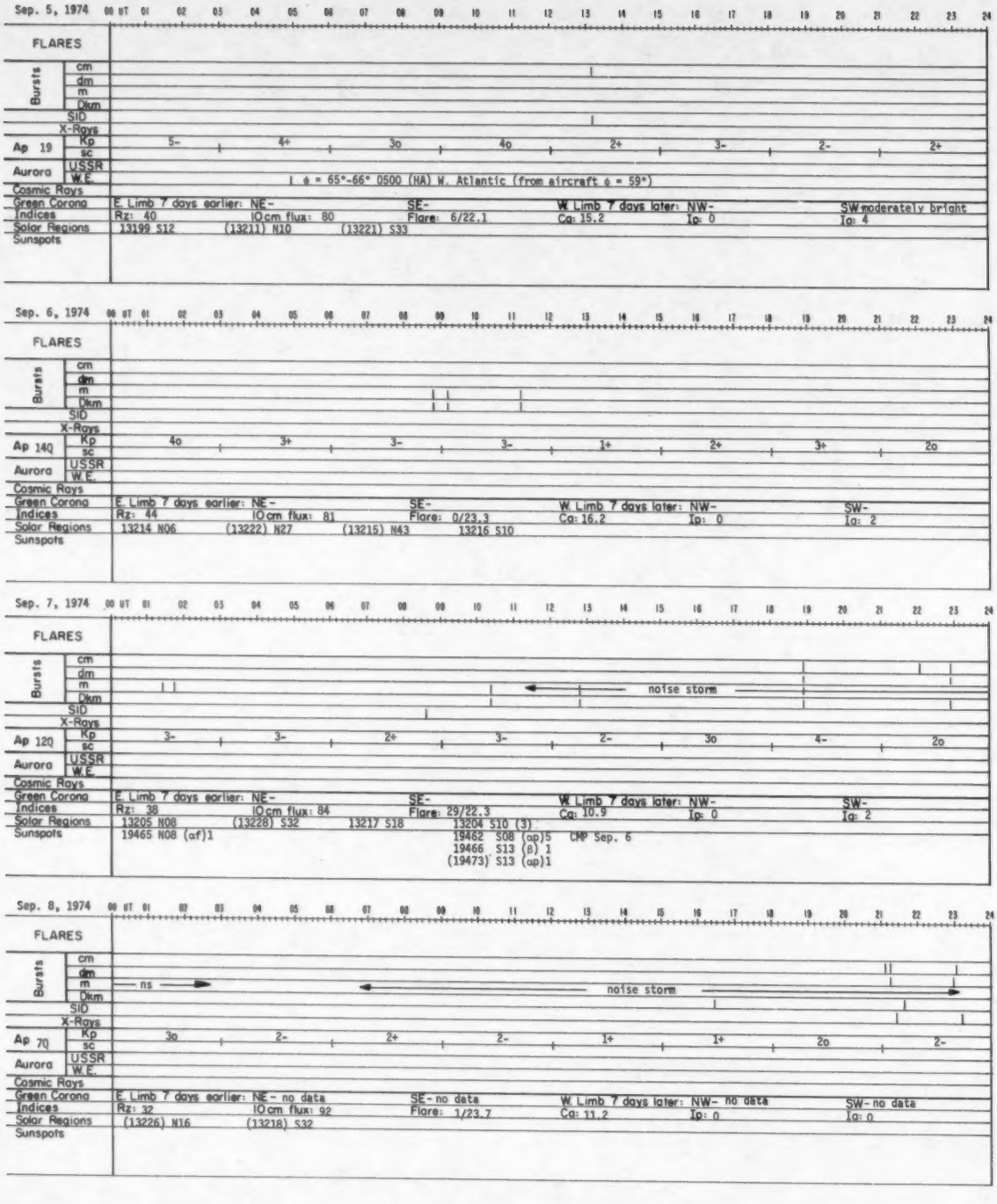
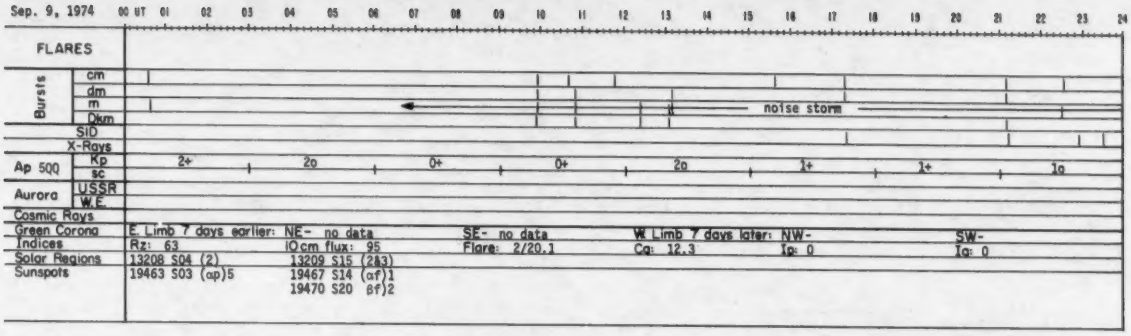
# ABBREVIATED CALENDAR RECORD

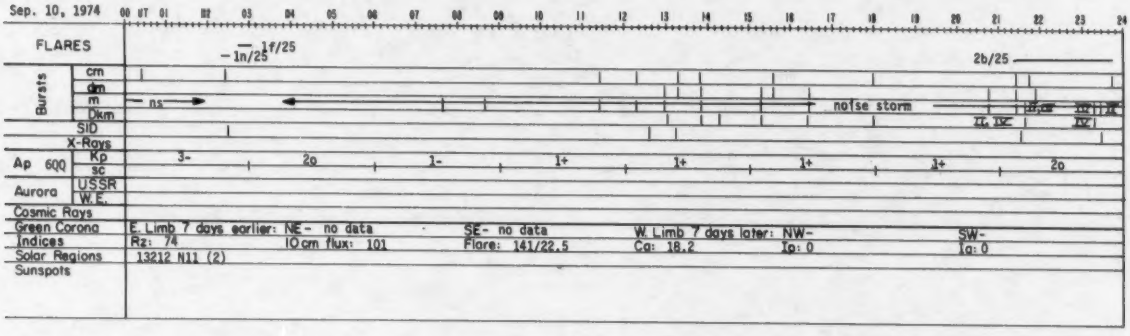
SEPTEMBER 1974

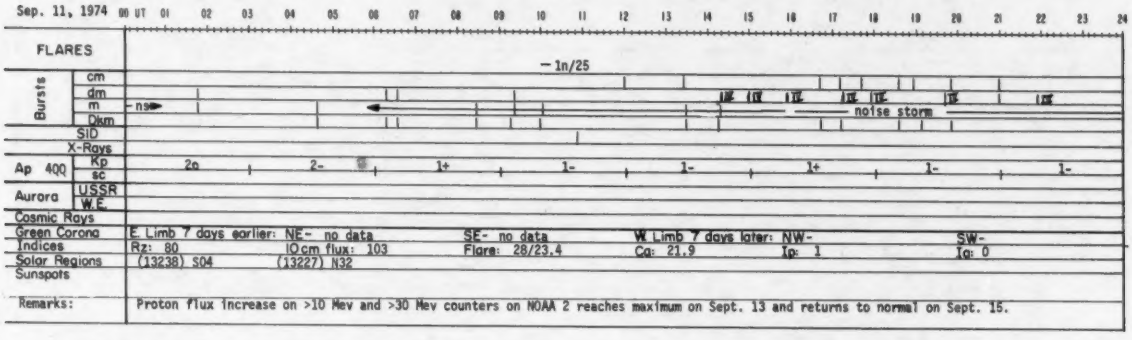


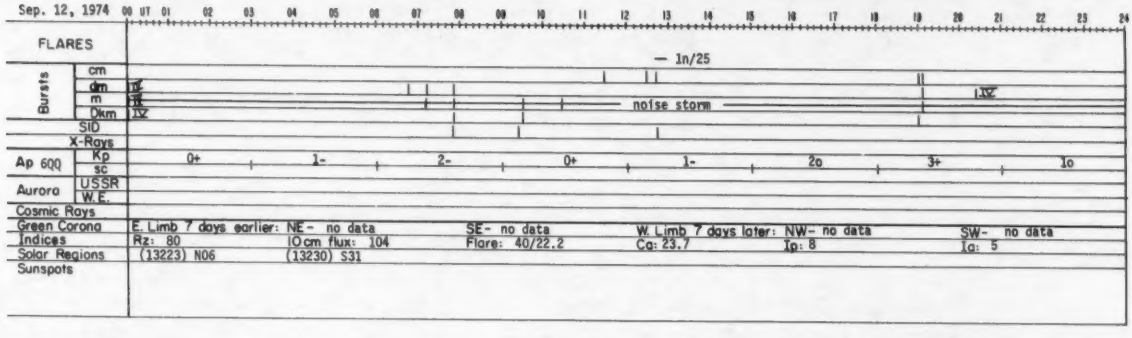

Sep. 1, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 24
Kp
3+ 5o 3+ 3+ 4+ 3o 3o 4o
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E Limb 7 days earlier: NE-
SE-
W Limb 7 days later: NW-
SW-
Indices
Rz: 8 (final)
10cm flux: 76
Flare: 0/20.5
Cq: 1.4
Ip: 0
Ig: 4
Solar Regions
(13213) S13
(13202) N37
Sunspots
Sep. 2, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 32
Kp
5- 3+ 4+ 5- 3- 3+ 5- 5+
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E Limb 7 days earlier: NE-
SE-
W Limb 7 days later: NW-
SW-
Indices
Rz: 8
10cm flux: 78
Flare: 0/17.3
Cq: no data
Ip: 0
Ig: 5
Solar Regions
(13200) S17
(13190) S17
Sunspots
Sep. 3, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 16
Kp
4- 3+ 3+ 3+ 3- 3o 3+ 2+
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E Limb 7 days earlier: NE- no data
SE- no data
W Limb 7 days later: NW-
SW-
Indices
Rz: 16
10cm flux: 78
Flare: 0/23.4
Cq: 4.5
Ip: 2
Ig: 4
Solar Regions
(13196) N15
Sunspots
Sep. 4, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 20
Kp
3+ 3+ 3o 2+ 2+ 2- 5- 5o
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E Limb 7 days earlier: NE-
SE-moderately bright
W Limb 7 days later: NW- no data
SW- no data
Indices
Rz: 37
10cm flux: 80
Flare: 0/23.4
Cq: 9.4
Ip: 0
Ig: 4
Solar Regions
(13207) S14
13210 S12
(13219) S03
Sunspots
19464 S12 (Bp)2

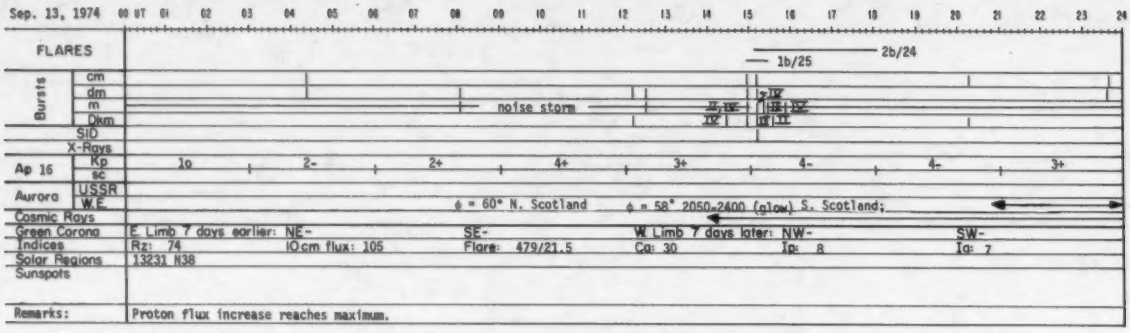

Sep. 5, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 19
Kp
sc
5- 4+ 3o 4o 2+ 3- 2- 2+
Aurora
USSR
W.E.
I φ = 65°-66° 0500 (HA) W. Atlantic (from aircraft φ = 59°)
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-moderately bright
Indices
Rz: 40 10cm flux: 80 Flare: 6/22.1 Cα: 15.2 Ip: 0 Ig: 4
Solar Regions
Sunspots
13199 S12 (13211) N10 (13221) S33
Sep. 6, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 140
Kp
sc
4o 3+ 3- 3- 1+ 2+ 3+ 2o
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices
Rz: 44 10cm flux: 81 Flare: 0/23.3 Cα: 16.2 Ip: 0 Ig: 2
Solar Regions
Sunspots
13214 N06 (13222) N27 (13215) N43 13216 S10
Sep. 7, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 120
Kp
sc
3- 3- 2+ 3- 2- 3o 4- 2o
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices
Rz: 38 10cm flux: 84 Flare: 29/22.3 Cα: 10.9 Ip: 0 Ig: 2
Solar Regions
Sunspots
13205 N08 (13228) S32 13217 S18 13204 S10 (3)
19465 N08 (af)1 19462 S08 (αp)5 CMP Sep. 6
19466 S13 (β) 1
(19473) S13 (αp)1
Sep. 8, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
ns
noise storm
Dkm
SID
X-Rays
Ap 70
Kp
sc
3o 2- 2+ 2- 1+ 1+ 2o 2-
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices
Rz: 32 10cm flux: 92 Flare: 1/23.7 Cα: 11.2 Ip: 0 Ig: 0
Solar Regions
Sunspots
(13226) N16 (13218) S32

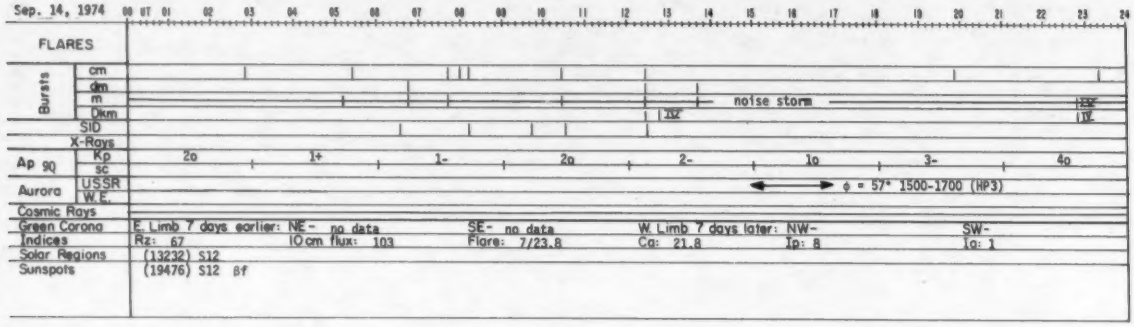

Sep. 9, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 500
Kp
sc
2+ 2o 0+ 0+ 2o 1+ 1+ 1o
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
E. Limb 7 days earlier: NE- no data
Rz: 63
10cm flux: 95
13208 S04 (2)
13209 S15 (2β3)
19463 S03 (αp)5
19467 S14 (αf)1
19470 S20 βf)2
SE- no data
Flare: 2/20.1
W. Limb 7 days later: NW-
Ca: 12.3
Ip: 0
SW-
Ia: 0

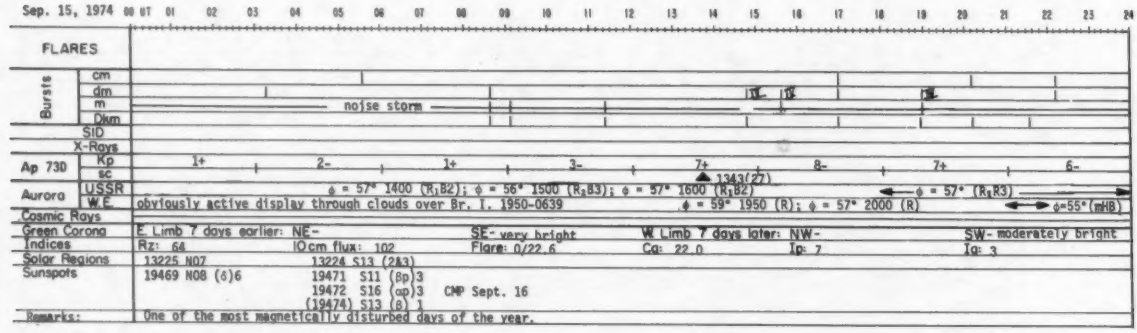

Sep. 10, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
1n/25
1f/25
2b/25
Bursts
cm
dm
m
Dkm
ns
noise storm
SID
X-Rays
Ap 600
Kp
sc
3- 2o 1- 1+ 1+ 1+ 1+ 2o
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
E. Limb 7 days earlier: NE- no data
Rz: 74
10cm flux: 101
13212 N11 (2)
SE- no data
Flare: 141/22.5
W. Limb 7 days later: NW-
Ca: 18.2
Ip: 0
SW-
Ia: 0

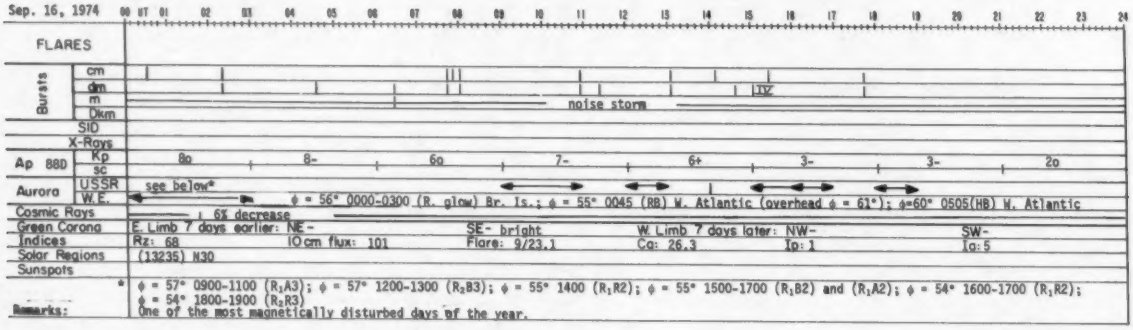

Sep. 11, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
1n/25
Bursts
cm
dm
m
Dkm
ns
noise storm
SID
X-Rays
Ap 400
Kp
sc
2o 2- 1+ 1- 1- 1+ 1- 1-
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
Remarks:
E. Limb 7 days earlier: NE- no data
Rz: 80
10cm flux: 103
(13238) S04
(13227) N32
SE- no data
Flare: 28/23.4
W. Limb 7 days later: NW-
Ca: 21.9
Ip: 1
SW-
Ia: 0
Proton flux increase on >10 Mev and >30 Mev counters on NOAA 2 reaches maximum on Sept. 13 and returns to normal on Sept. 15.

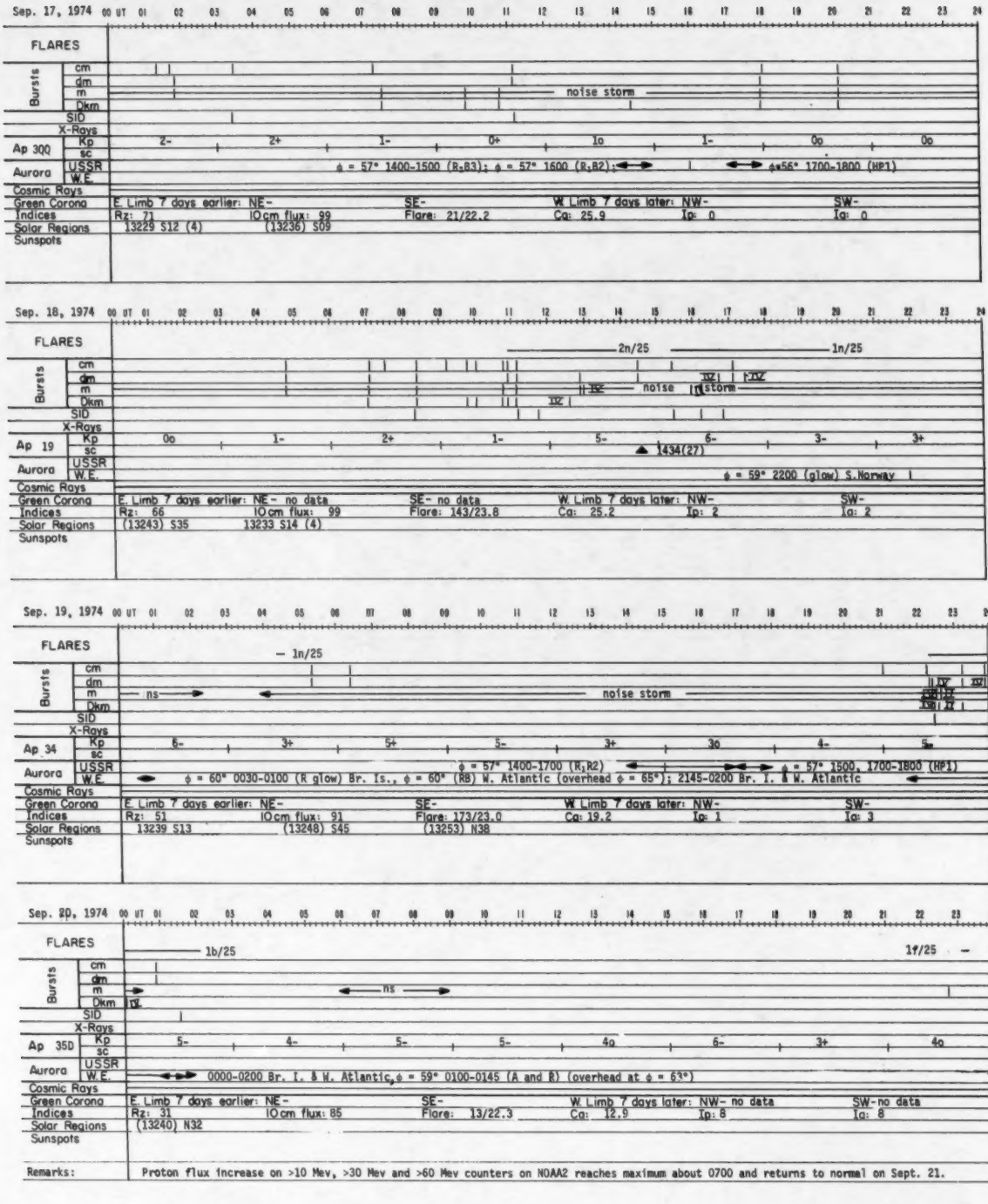

Sep. 12, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
1n/25
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 600
Kp
sc
0+ 1- 2- 0+ 1- 2o 3+ 1o
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
E. Limb 7 days earlier: NE- no data
Rz: 80
10cm flux: 104
(13223) N06
(13230) S31
SE- no data
Flare: 40/22.2
W. Limb 7 days later: NW- no data
Ca: 23.7
Ip: 8
SW- no data
Ia: 5

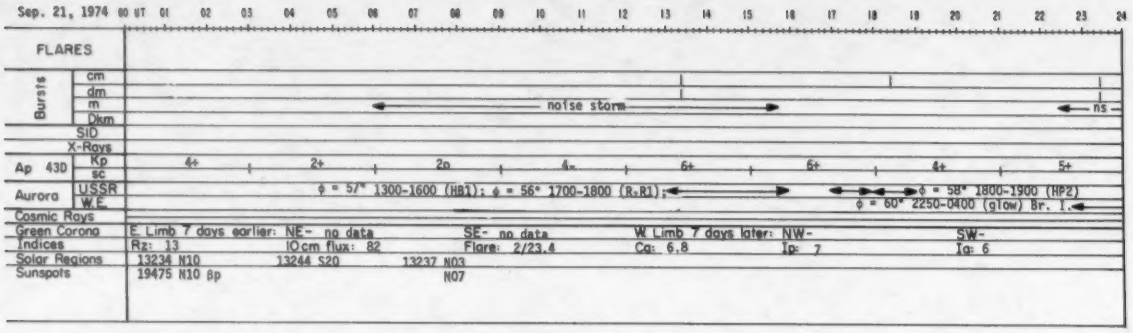

Sep. 13, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
2b/24
1b/25
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 16
Kp
sc
1o 2- 2+ 4+ 3+ 4- 4- 3+
Aurora
USSR
W.E.
ϕ = 60° N. Scotland
ϕ = 58° 2050-2400 (glow) S. Scotland;
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE-
SE-
W. Limb 7 days later: NW-
SW-
Indices
Rz: 74
10cm flux: 105
Flare: 479/21.5
Ca: 30
Ip: 8
Ia: 7
Solar Regions
13231 N38
Sunspots
Remarks:
Proton flux increase reaches maximum.

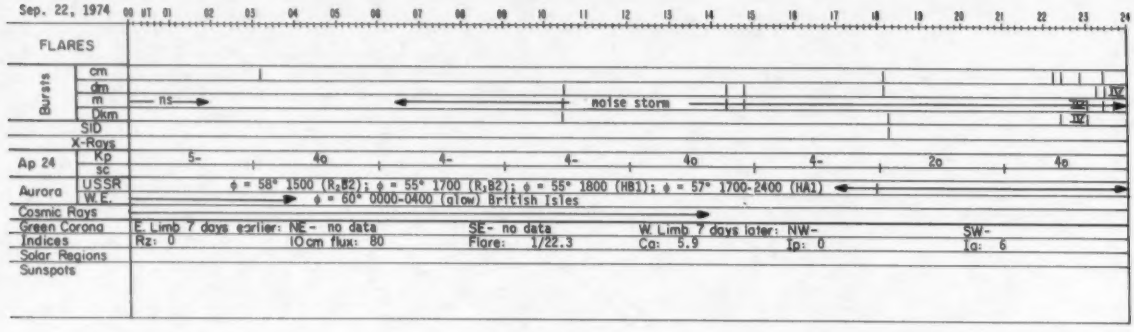

Sep. 14, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 90
Kp
sc
2o 1+ 1- 2o 2- 1o 3- 4o
Aurora
USSR
W.E.
ϕ = 57° 1500-1700 (HP3)
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data
SE- no data
W. Limb 7 days later: NW-
SW-
Indices
Rz: 67
10cm flux: 103
Flare: 7/23.8
Ca: 21.8
Ip: 8
Ia: 1
Solar Regions
(13232) S12
Sunspots
(19476) S12 βf

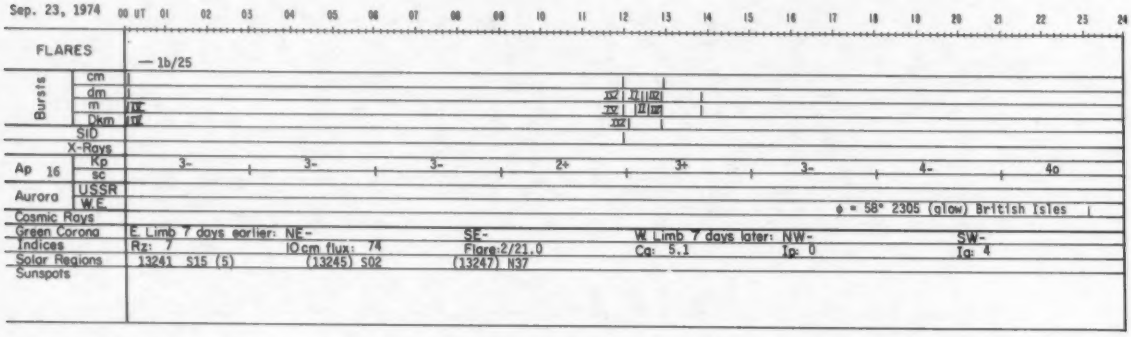

Sep. 15, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 730
Kp
sc
1+ 2- 1+ 3- 7+ 8- 7+ 6-
1343(27)
Aurora
USSR
W.E.
ϕ = 57° 1400 (R1B2); ϕ = 56° 1500 (R1B3); ϕ = 57° 1600 (R1B2)
ϕ = 57° (R1R3)
obviously active display through clouds over Br. I. 1950-0639
ϕ = 59° 1950 (R); ϕ = 57° 2000 (R)
ϕ=55°(mHB)
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE-
SE- very bright
W. Limb 7 days later: NW-
SW- moderately bright
Indices
Rz: 64
10cm flux: 102
Flare: 0/22.6
Ca: 22.0
Ip: 7
Ia: 3
Solar Regions
13225 N07
13224 S13 (2β3)
Sunspots
19469 N08 (δ)6
19471 S11 (βp)3
19472 S16 (αp)3 CMP Sept. 16
(19474) S13 (β) 1
Remarks:
One of the most magnetically disturbed days of the year.

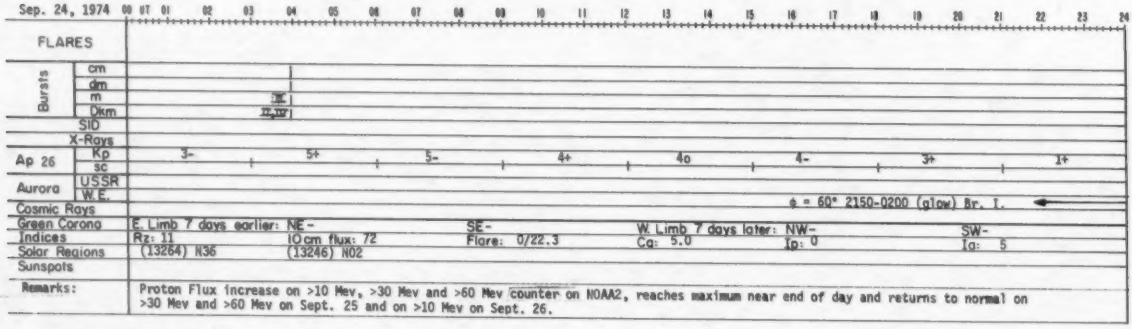

Sep. 16, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 880
Kp
sc
8o 8- 6o 7- 6+ 3- 3- 2o
Aurora
USSR
W.E.
see below*
ϕ = 56° 0000-0300 (R. glow) Br. Is.; ϕ = 55° 0045 (RB) W. Atlantic (overhead ϕ = 61°); ϕ=60° 0505(HB) W. Atlantic
Cosmic Rays
6% decrease
Green Corona
E. Limb 7 days earlier: NE-
SE- bright
W. Limb 7 days later: NW-
SW-
Indices
Rz: 68
10cm flux: 101
Flare: 9/23.1
Ca: 26.3
Ip: 1
Ia: 5
Solar Regions
(13235) N30
Sunspots
*
ϕ = 57° 0900-1100 (R1A3); ϕ = 57° 1200-1300 (R2B3); ϕ = 55° 1400 (R1R2); ϕ = 55° 1500-1700 (R1B2) and (R1A2); ϕ = 54° 1600-1700 (R1R2); ϕ = 54° 1800-1900 (R2R3)
Remarks:
One of the most magnetically disturbed days of the year.

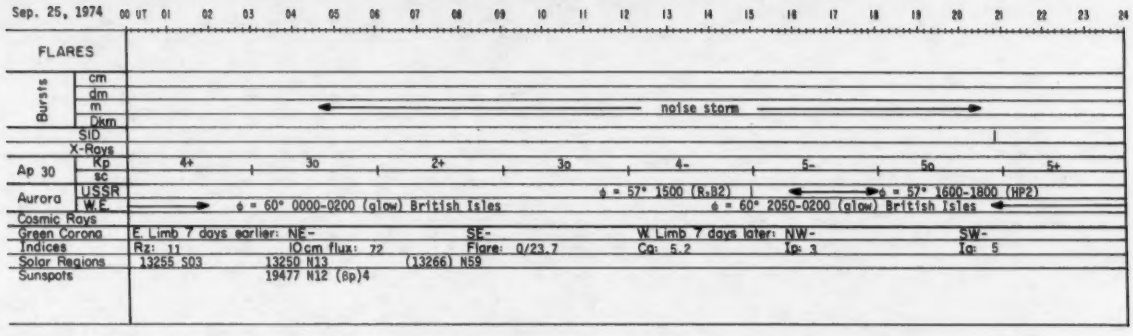

Sep. 17, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 300
Kp
2-
2+
1-
0+
1o
1-
0o
0o
sc
Aurora
USSR
W.E.
ϕ = 57° 1400-1500 (R,83); ϕ = 57° 1600 (R,82);
4x56° 1700-1800 (HP1)
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE-
SE-
W. Limb 7 days later: NW-
SW-
Indices
Rz: 71
10cm flux: 99
Flare: 21/22.2
Ca: 25.9
Ip: 0
Ia: 0
Solar Regions
13229 S12 (4)
(13236) S09
Sunspots
Sep. 18, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
2n/25
1n/25
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 19
Kp
0o
1-
2+
1-
5-
6-
3-
3+
sc
1434(27)
Aurora
USSR
W.E.
ϕ = 59° 2200 (glow) S.Norway
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data
SE- no data
W. Limb 7 days later: NW-
SW-
Indices
Rz: 66
10cm flux: 99
Flare: 143/23.8
Ca: 25.2
Ip: 2
Ia: 2
Solar Regions
(13243) S35
13233 S14 (4)
Sunspots
Sep. 19, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
1n/25
Bursts
cm
dm
m
Dkm
ns
noise storm
SID
X-Rays
Ap 34
Kp
5-
3+
5+
5-
3+
3o
4-
5-
sc
Aurora
USSR
ϕ = 57° 1400-1700 (R,R2)
ϕ = 57° 1500, 1700-1800 (HP1)
W.E.
ϕ = 60° 0030-0100 (R glow) Br. Is., ϕ = 60° (RB) W. Atlantic (overhead ϕ = 65°); 2145-0200 Br. I. & W. Atlantic
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE-
SE-
W. Limb 7 days later: NW-
SW-
Indices
Rz: 51
10cm flux: 91
Flare: 173/23.0
Ca: 19.2
Ip: 1
Ia: 3
Solar Regions
13239 S13
(13248) S45
(13253) N38
Sunspots
Sep. 20, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
1b/25
1f/25
Bursts
cm
dm
m
Dkm
ns
SID
X-Rays
Ap 35D
Kp
5-
4-
5-
5-
4o
6-
3+
4o
sc
Aurora
USSR
W.E.
0000-0200 Br. I. & W. Atlantic, ϕ = 59° 0100-0145 (A and R) (overhead at ϕ = 63°)
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE-
SE-
W. Limb 7 days later: NW- no data
SW- no data
Indices
Rz: 31
10cm flux: 85
Flare: 13/22.3
Ca: 12.9
Ip: 8
Ia: 8
Solar Regions
(13240) N32
Sunspots
Remarks:
Proton flux increase on >10 Mev, >30 Mev and >60 Mev counters on NOAA2 reaches maximum about 0700 and returns to normal on Sept. 21.

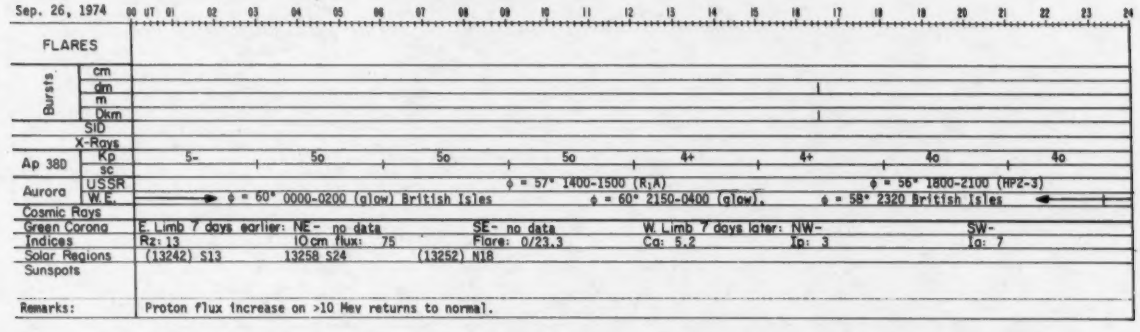

Sep. 21, 1974 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
ns
SID
X-Rays
Ap 43D
Kp
sc
4+ 2+ 2o 4- 6+ 5+ 4+ 5+
Aurora
USSR
W.E.
ϕ = 57° 1300-1600 (HB1); ϕ = 56° 1700-1800 (R,R1);
ϕ = 58° 1800-1900 (HPZ)
ϕ = 60° 2250-0400 (glow) Br. I.
Cosmic Rays
Green Corona
Indices
E Limb 7 days earlier: NE- no data
SE- no data
W Limb 7 days later: NW-
SW-
Rz: 13
10cm flux: 82
Flare: 2/23.4
Ca: 6.8
Ip: 7
Ia: 6
Solar Regions
13234 N10
13244 S20
13237 N03
Sunspots
19475 N10 βp
N07

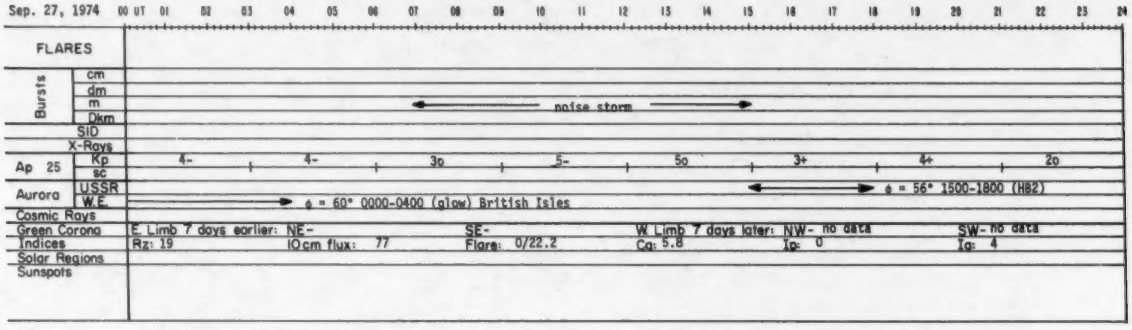

Sep. 22, 1974 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
ns
noise storm
SID
X-Rays
Ap 24
Kp
sc
5- 4o 4- 4- 4o 4- 2o 4o
Aurora
USSR
W.E.
ϕ = 58° 1500 (R,B2); ϕ = 55° 1700 (R,B2); ϕ = 55° 1800 (HB1); ϕ = 57° 1700-2400 (HA1)
ϕ = 60° 0000-0400 (glow) British Isles
Cosmic Rays
Green Corona
Indices
E Limb 7 days earlier: NE- no data
SE- no data
W Limb 7 days later: NW-
SW-
Rz: 0
10cm flux: 80
Flare: 1/22.3
Ca: 5.9
Ip: 0
Ia: 6
Solar Regions
Sunspots

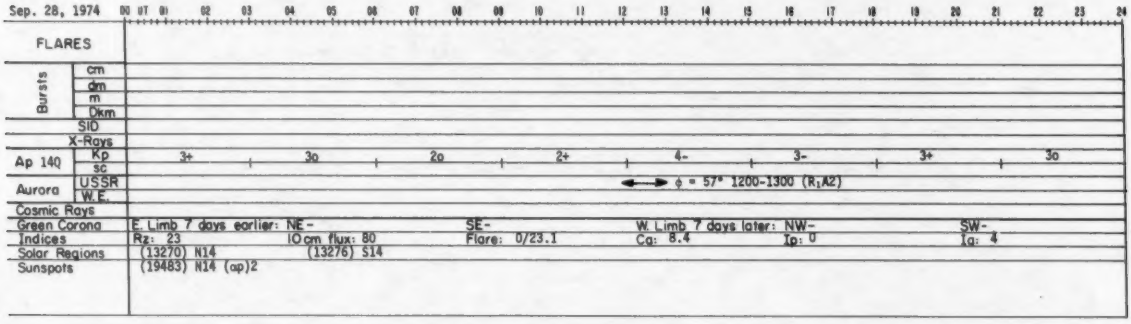

Sep. 23, 1974 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
— 1b/25
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 16
Kp
sc
3- 3- 3- 2+ 3+ 3- 4- 4o
Aurora
USSR
W.E.
ϕ = 58° 2305 (glow) British Isles
Cosmic Rays
Green Corona
Indices
E Limb 7 days earlier: NE-
SE-
W Limb 7 days later: NW-
SW-
Rz: 7
10cm flux: 74
Flare: 2/21.0
Ca: 5.1
Ip: 0
Ia: 4
Solar Regions
13241 S15 (5)
(13245) S02
(13247) N37
Sunspots

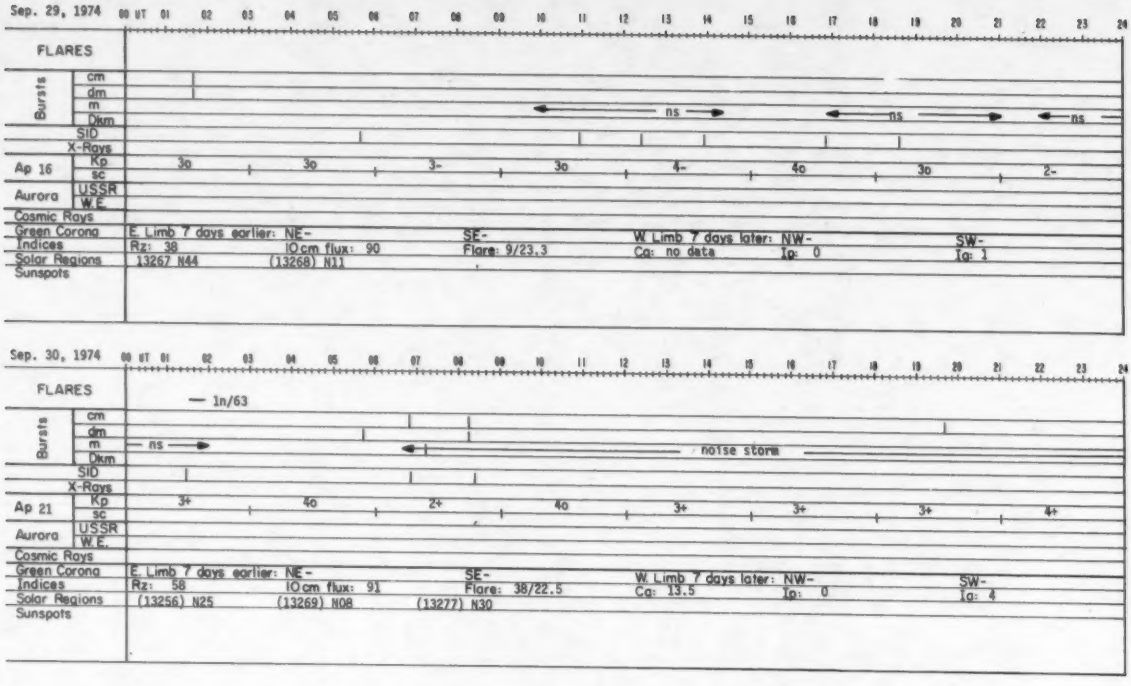

Sep. 24, 1974 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 26
Kp
sc
3- 5+ 5- 4+ 4o 4- 3+ 1+
Aurora
USSR
W.E.
ϕ = 60° 2150-0200 (glow) Br. I.
Cosmic Rays
Green Corona
Indices
E Limb 7 days earlier: NE-
SE-
W Limb 7 days later: NW-
SW-
Rz: 11
10cm flux: 72
Flare: 0/22.3
Ca: 5.0
Ip: 0
Ia: 5
Solar Regions
(13264) N36
(13246) N02
Sunspots
Remarks:
Proton Flux increase on >10 Mev, >30 Mev and >60 Mev counter on NOAA2, reaches maximum near end of day and returns to normal on >30 Mev and >60 Mev on Sept. 25 and on >10 Mev on Sept. 26.


Sep. 25, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 30
Kp
4+ 3o 2+ 3o 4- 5- 5o 5+
sc
Aurora
USSR
φ = 57° 1500 (R,B2)
φ = 57° 1600-1800 (HP2)
W.E.
φ = 60° 0000-0200 (glow) British Isles
φ = 60° 2050-0200 (glow) British Isles
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE-
SE-
W. Limb 7 days later: NW-
SW-
Indices
Rz: 11
10cm flux: 72
Flare: 0/23.7
Ca: 5.2
Ip: 3
Ia: 5
Solar Regions
13255 S03
13250 N13
(13266) N59
Sunspots
19477 N12 (βp)4


Sep. 26, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 38D
Kp
5- 5o 5o 5o 4+ 4+ 4o 4o
sc
Aurora
USSR
φ = 57° 1400-1500 (R1A)
φ = 56° 1800-2100 (HP2-3)
W.E.
φ = 60° 0000-0200 (glow) British Isles
φ = 60° 2150-0400 (glow).
φ = 58° 2320 British Isles
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data
SE- no data
W. Limb 7 days later: NW-
SW-
Indices
Rz: 13
10cm flux: 75
Flare: 0/23.3
Ca: 5.2
Ip: 3
Ia: 7
Solar Regions
(13242) S13
13258 S24
(13252) N18
Sunspots
Remarks:
Proton flux increase on >10 Mev returns to normal.


Sep. 27, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 25
Kp
4- 4- 3o 5- 5o 3+ 4+ 2o
sc
Aurora
USSR
φ = 56° 1500-1800 (HB2)
W.E.
φ = 60° 0000-0400 (glow) British Isles
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE-
SE-
W. Limb 7 days later: NW- no data
SW- no data
Indices
Rz: 19
10cm flux: 77
Flare: 0/22.2
Ca: 5.8
Ip: 0
Ia: 4
Solar Regions
Sunspots


Sep. 28, 1974
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 140
Kp
3+ 3o 2o 2+ 4- 3- 3+ 3o
sc
Aurora
USSR
φ = 57° 1200-1300 (R1A2)
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE-
SE-
W. Limb 7 days later: NW-
SW-
Indices
Rz: 23
10cm flux: 80
Flare: 0/23.1
Ca: 8.4
Ip: 0
Ia: 4
Solar Regions
(13270) N14
(13276) S14
Sunspots
(19483) N14 (αp)2




## REGIONAL FLARE INDEX

SEPTEMBER 1974

| HC MATH PLAGE NO. | LAT | CMP DATE | DATE FIRST FLARE | DATE LAST FLARE | FLARE-INDEX SUM | FLARE-INDEX MEAN | TOTAL NO. OF FLARES |
|---|---|---|---|---|---|---|---|
| 13204 | S10 | 74/09/07.4 | 74/09/12 | 74/09/12 | 4.67 | 4.67 | 1 |
| 13208 | S 4 | 74/09/09.3 | 74/09/14 | 74/09/14 | 1.54 | 1.54 | 1 |
| 13209 | S15 | 74/09/09.8 | 74/09/05 | 74/09/07 | 35.21 | 11.74 | 3 |
| 13232 | S12 | 74/09/14.8 | 74/09/18 | 74/09/18 | 0.80 | 0.80 | 1 |
| 13225 | N 7 | 74/09/15.4 | 74/09/08 | 74/09/23 | 613.91 | 38.37 | 31 |
| 13224 | S13 | 74/09/15.5 | 74/09/11 | 74/09/13 | 445.24 | 148.41 | 2 |

Note:
The Regional Flare Index and count of flares in each region has in previous months included each maximum of a multi-maximum event. This has caused some regions to appear to be more flare producing than is probably warranted. Beginning with April 1972 only the principal maximum of a multi-maximum event will be used in the calculation. Also note that only the Confirmed Events as selected for the "I.A.U. Quarterly Bulletin on Solar Activity" are included in the calculation.

Because of differences in method of calculation, the dates of Central Meridian Passage for the McMath Plage Regions vary somewhat from those given elsewhere. Any region not listed here produced no confirmed flares during its disk passage.

# MISCELLANEOUS DATA

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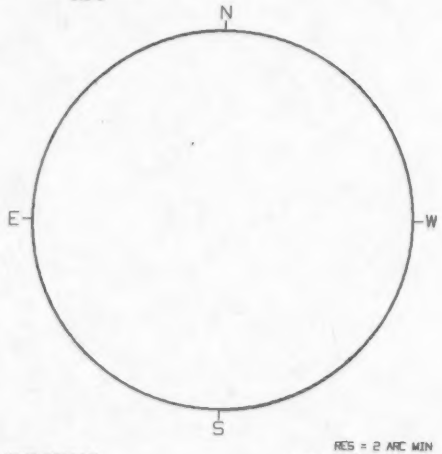
X-ray Spectroheliograms
OSO-5 -- January 1975 58-60

02 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



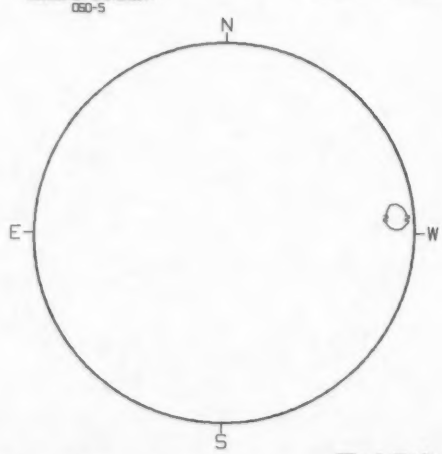

0045-0153 UT

RES = 2 ARC MIN
UNIT = $10^{-6}$ERG/CM$^2$/SEC

03 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



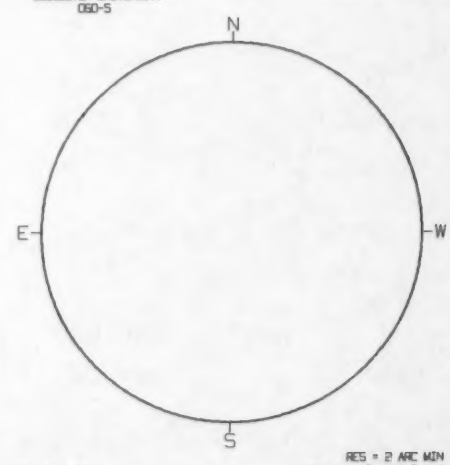

0148-0309 UT

RES = 2 ARC MIN
UNIT = $10^{-6}$ERG/CM$^2$/SEC

05 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



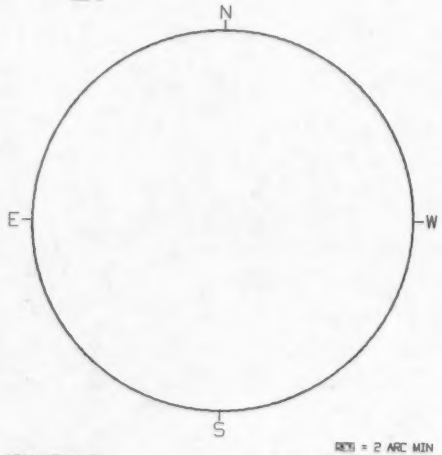

0224-0338 UT

RES = 2 ARC MIN
UNIT = $10^{-6}$ERG/CM$^2$/SEC

06 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



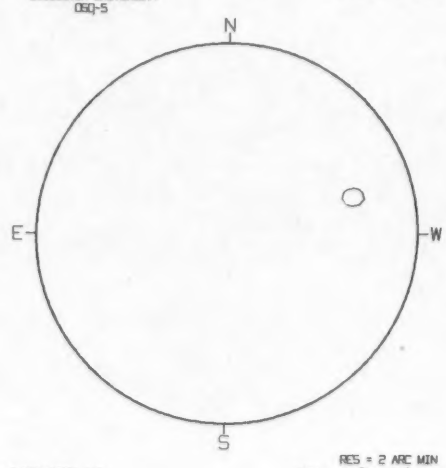

1511-1611 UT

RES = 2 ARC MIN
UNIT = $10^{-6}$ERG/CM$^2$/SEC

07 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



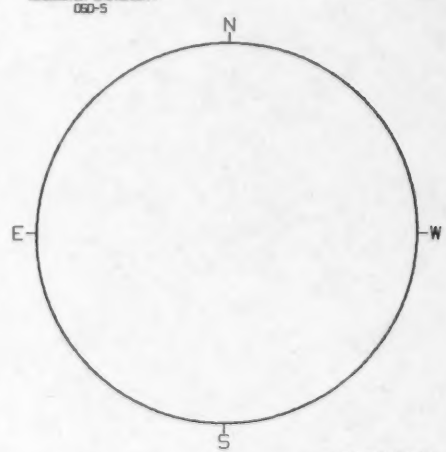

1458-1531 UT

RES = 2 ARC MIN
UNIT = $10^{-6}$ERG/CM$^2$/SEC

08 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



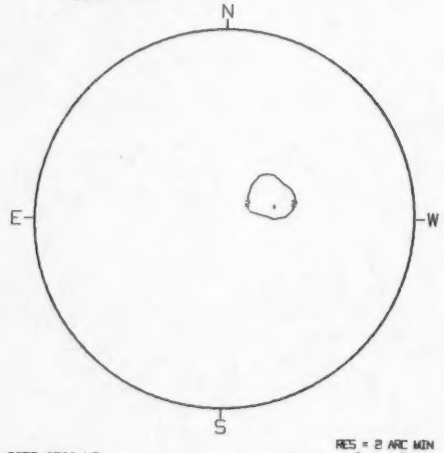

0157-0252 UT

RES = 2 ARC MIN
UNIT = $10^{-6}$ERG/CM$^2$/SEC

09 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



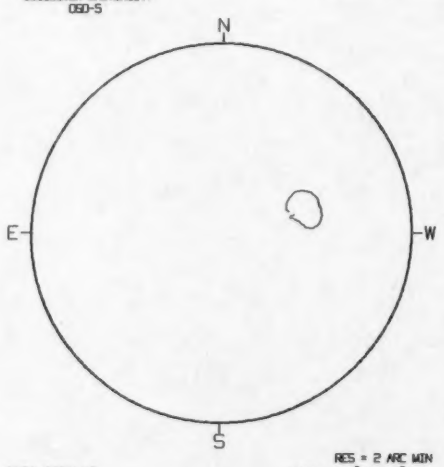

0058-0200 UT

RES = 2 ARC MIN
UNIT = $10^{-4}$ERG/CM$^2$/SEC

10 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



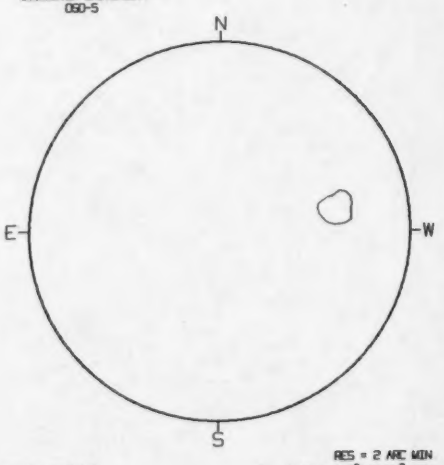

0130-0230 UT

RES = 2 ARC MIN
UNIT = $10^{-4}$ERG/CM$^2$/SEC

11 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



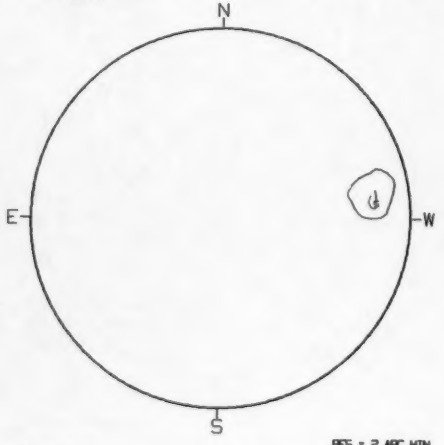

0035-0217 UT

RES = 2 ARC MIN
UNIT = $10^{-4}$ERG/CM$^2$/SEC

12 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



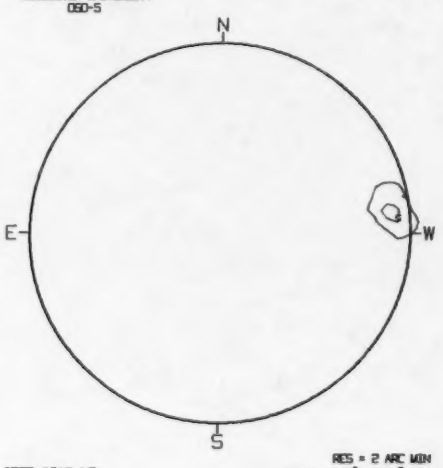

0311-0454 UT

RES = 2 ARC MIN
UNIT = $10^{-4}$ERG/CM$^2$/SEC

13 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



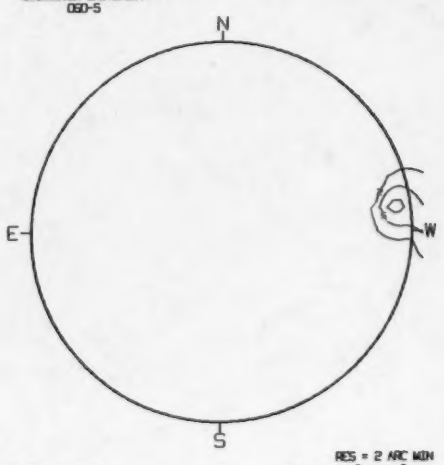

0657-0815 UT

RES = 2 ARC MIN
UNIT = $10^{-4}$ERG/CM$^2$/SEC

14 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



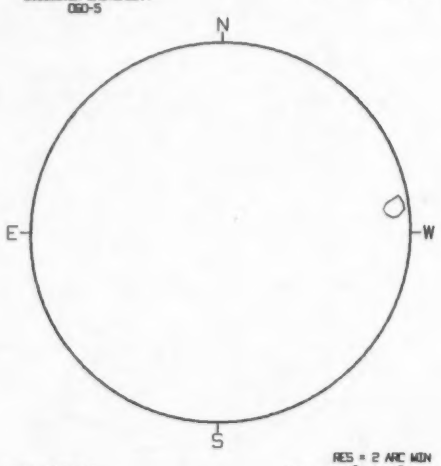

0247-0347 UT

RES = 2 ARC MIN
UNIT = $10^{-4}$ERG/CM$^2$/SEC

15 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



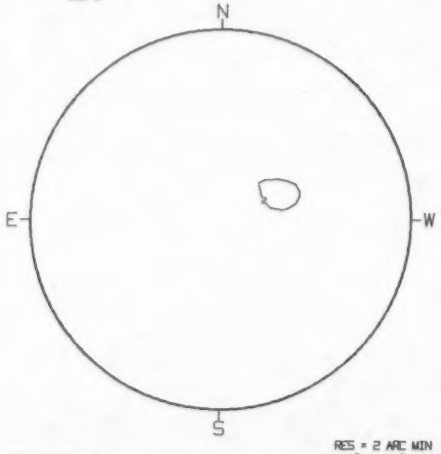

0235-0418 UT

RES = 2 ARC MIN
UNIT = $10^{-6}$ERG/CM$^2$/SEC

16 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



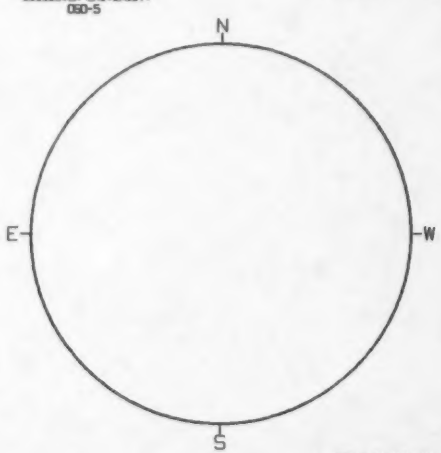

0222-0322 UT

RES = 2 ARC MIN
UNIT = $10^{-6}$ERG/CM$^2$/SEC

19 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



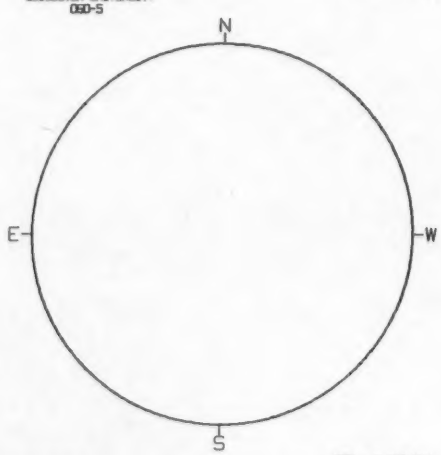

0005-0148 UT

RES = 2 ARC MIN
UNIT = $10^{-6}$ERG/CM$^2$/SEC

20 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



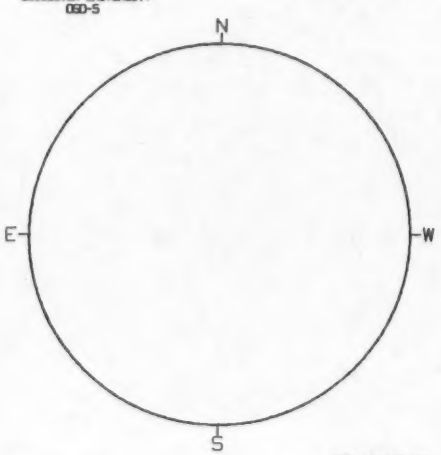

0937-1056 UT

RES = 2 ARC MIN
UNIT = $10^{-6}$ERG/CM$^2$/SEC

21 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



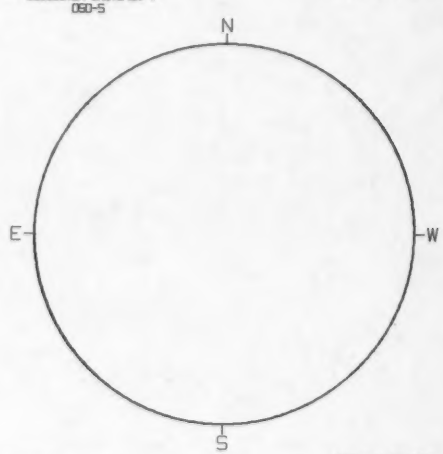

2340-0124 UT

RES = 2 ARC MIN
UNIT = $10^{-6}$ERG/CM$^2$/SEC

22 JANUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS




2328-0004 UT

RES = 2 ARC MIN
UNIT = $10^{-6}$ERG/CM$^2$/SEC

Note: There are no contours on the 23 January 1975 map. No maps are available for 24-31 January because of processing problems.

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UAG-9 "Data on Cosmic Ray Event of November 18, 1968 and Associated Phenomena", compiled by J. Virginia Lincoln, World Data Center A, Upper Atmosphere Geophysics, ESSA, April 1970, 109 pages, price 55 cents.

UAG-10 "Atlas of Ionograms", edited by A. H. Shapley, ESSA Research Laboratories, May 1970, 243 pages, price $1.50.

UAG-11 "Catalogue of Data on Solar-Terrestrial Physics", June 1970. (now obsolete).

UAG-12 "Solar-Geophysical Activity Associated with the Major Geomagnetic Storm of March 8, 1970", Parts 1, 2 and 3, compiled by J. Virginia Lincoln and Dale B. Bucknam, World Data Center A, Upper Atmosphere Geophysics, NOAA, April 1971, 466 pages, price (includes Parts 1-3) $3.00.

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UAG-25 "Observations of Jupiter's Sporadic Radio Emission in the Range 7.6-41 MHz, 9 September 1968 through 9 December 1971", by James W. Warwick, George A. Dulk and David G. Swann, Department of Astro-Geophysics, University of Colorado, February 1973, 35 pages, price 35 cents.

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